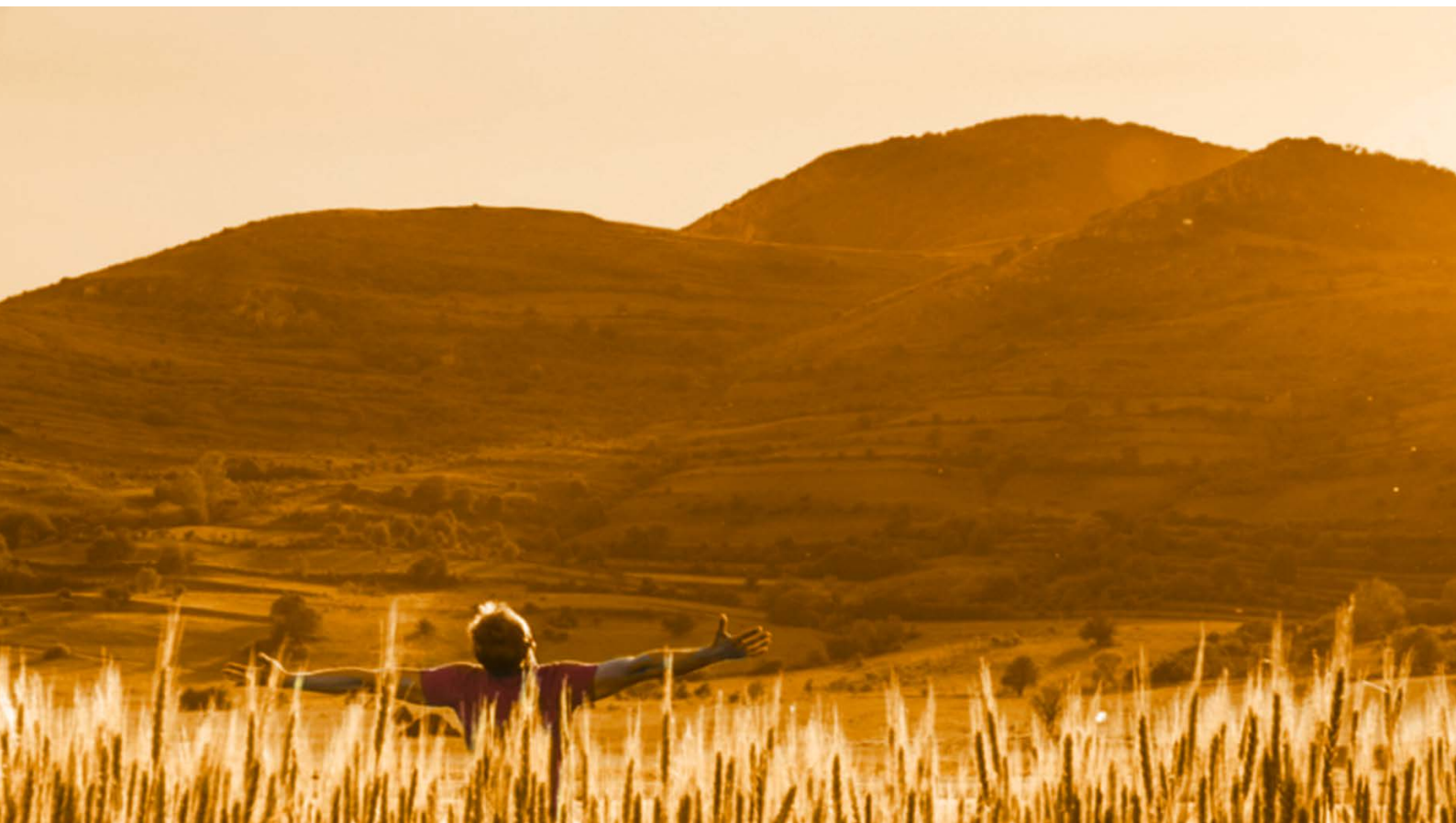


PV GRID-CONNECTED INVERTERS 2019-2020

www.sungrowpower.com





79GW+

Deployed
Worldwide

15%+

Global Market
Share

99%

Efficiency PV
Inverters

60+

Countries
with Sungrow
Installations

No.1

Largest
PV Inverter
R&D Team

20+

Years in the
Solar Industry



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HISTORY

1997



Foundation

2002



Supplier of
the Project of
“Powering the
Rural Area”

2011



IPO in Shenzhen
Stock Exchange

2016



Launched the
Storage Inverter
Factory

2017



Adopted ‘Clean power for all’
as Corporate Mission and
‘Becoming a global leader of
power conversion
technology’
as Corporate Vision

2018



Launched the
New Factory in
India



ABOUT SUNGROW

Sungrow Power Supply Co., Ltd (“Sungrow”) is a global leading inverter solution supplier for renewables with over 79 GW installed worldwide as of Dec 2018. Founded in 1997 by University Professor Cao Renxian, Sungrow is a leader in the research and development of solar inverters, with the largest dedicated R&D team in the industry and a broad product portfolio offering PV inverter solutions and energy storage systems for utility-scale, commercial, and residential applications, as well as internationally recognized floating PV plant solutions. With a strong 22-year track record in the PV space, Sungrow products power installations in over 60 countries, maintaining a worldwide market share of over 15%.

As a leader of innovation in the solar industry, Sungrow possesses a dynamic R&D team which consists of over 900 employees. The Company has also invested its own in-house testing center approved by UL, CSA, TÜV Rheinland, and TÜV SÜD. In 2018, Sungrow launched a new inverter factory in India with 3GW annual capacity.

Offering a wide range of solutions and services, Sungrow is committed to provide clean power for all and is steadfast in its efforts to becoming the global leader of power conversion technology. Learn more about Sungrow by visiting www.sungrowpower.com



Central Inverter



SG3400HV-MV-20

SG3125HV-MV-20

SG2500HV-MV-20

SG3150U-MV

SG2500U-MV

SG3400HV-20

SG3125HV-20

SG2500HV-20

SG3150U

SG2500U

SG2000-MV/SG2500-MV

SG2000/SG2500

SG1250UD/SG1500UD

SG500MX/SG630MX

SG3400HV-MV-20

MV Turnkey Station for 1500 Vdc System - MV Separate Transformer + RMU



High Yield

- Advanced three-level technology, max. inverter efficiency 99 %
- Effective cooling, full power operation at 45 °C



Easy O&M

- Integrated current, voltage and MV parameters monitoring function for online analysis and fast trouble shooting
- Modular design, easy for maintenance
- Convenient external touch screen



Saved Investment

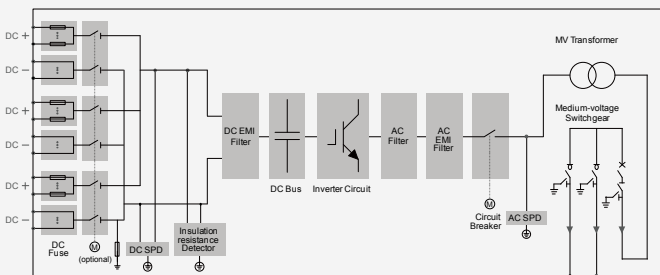
- Low transportation and installation cost due to 20-foot container design
- DC 1500 V system, low system cost
- Integrated MV transformer and switchgear
- Q at night function optional



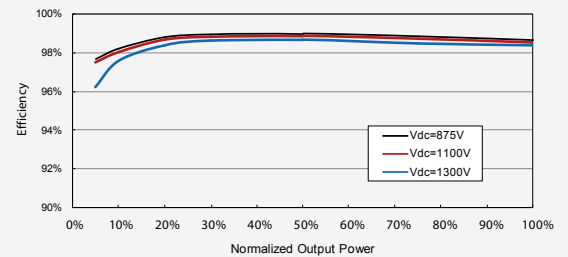
Grid Support

- Compliance with standards: IEC 61727, IEC 62116
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

Circuit Diagram



Inverter Efficiency Curve



Input (DC)
SG3400HV-MV-20

Max. PV input voltage	1500 V
Min. PV input voltage / Startup input voltage	875 V / 915 V
MPP voltage range for nominal power	875 – 1300 V
No. of independent MPP inputs	1
No. of DC inputs	21 (optional: 24 negative grounding or floating; 28 negative grounding)
Max. PV input current	4178 A

Output (AC)

AC output power	3593 kVA@ 25 °C / 3437 kVA@ 45 °C
Max. AC output current	3458 A
AC voltage range	10 – 35 kV
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % I _n
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Max. efficiency / Euro. efficiency	99.0 % / 98.7 %
------------------------------------	-----------------

Transformer

Transformer rated power	3437 kVA
Transformer max. power	3593 kVA
LV / MV voltage	0.6 kV / 10 – 35 kV
Transformer vector	Dy11
Transformer cooling type	ONAN (Oil Natural Air Natural)
Oil type	Mineral oil (PCB free) or degradable oil on request

Protection and Function

DC input protection	Load break switch + fuse
Inverter output protection	Circuit breaker
AC MV output protection	Circuit breaker
Overvoltage protection	DC Type I + II / AC Type II
Grid monitoring / Ground fault monitoring	Yes / Yes
Insulation monitoring	Yes
Overheat protection	Yes
Q at night function	Optional
Anti-PID function	Optional

General Data

Dimensions (W*H*D)	6058*2896*2438 mm
Weight	18 T
Degree of protection	IP54 (Inverter: IP55)
Auxiliary power supply	415 V, 15 kVA (Optional: max. 40 kVA)
Operating ambient temperature range	-35 to 60 °C (> 45 °C derating)
Allowable relative humidity range (non-condensing)	0 – 95 %
Cooling method	Temperature controlled forced air cooling
Max. operating altitude	1000 m (standard) / > 1000 m (optional)
Display	Touch screen
Communication	Standard: RS485, Ethernet; Optional: optical fiber
Compliance	CE, IEC 62109, IEC 62116, IEC 61727
Grid support	Q at night function (optional), L/HVRT, active & reactive power control and power ramp rate control
Type designation	SG3400HV-MV-20



SG3125HV-MV-20

MV Turnkey Station for 1500 Vdc System - MV Separate Transformer + RMU



High Yield

- Advanced three-level technology, max. inverter efficiency 99 %
- Effective cooling, full power operation at 50 °C



Easy O&M

- Integrated current, voltage and MV parameters monitoring function for online analysis and fast trouble shooting
- Modular design, easy for maintenance
- Convenient external touch screen



Saved Investment

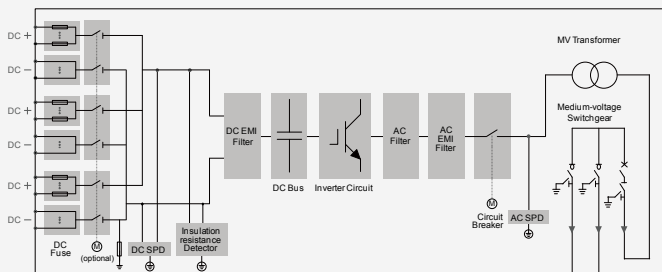
- Low transportation and installation cost due to 20-foot container design
- DC 1500 V system, low system cost
- Integrated MV transformer and switchgear
- Q at night function optional



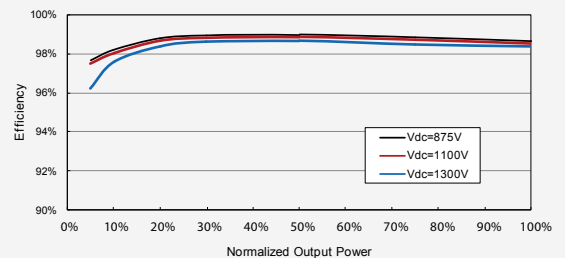
Grid Support

- Compliance with standards: IEC 61727, IEC 62116
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

Circuit Diagram



Inverter Efficiency Curve



Input (DC)
SG3125HV-MV-20

Max. PV input voltage	1500V
Min. PV input voltage / Startup input voltage	875 V / 915 V
MPP voltage range for nominal power	875 – 1300 V
No. of independent MPP inputs	1
No. of DC inputs	21 (optional: 24 negative grounding or floating; 28 negative grounding)
Max. PV input current	4178 A

Output (AC)

AC output power	3593 kVA@ 25 °C / 3437 kVA@ 45 °C / 3125 kVA@ 50 °C
Max. AC inverter output current	3458 A
AC voltage range	10 – 35 kV
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % In
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Inverter Max. efficiency / Inverter Euro. efficiency	99.0 % / 98.7 %
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Transformer

Transformer rated power	3125 kVA
Transformer max. power	3593 kVA
LV / MV voltage	0.6 kV / 10 – 35 kV
Transformer vector	Dy11
Transformer cooling type	ONAN (Oil Natural Air Natural)
Oil type	Mineral oil (PCB free) or degradable oil on request

Protection and Function

DC input protection	Load break switch + fuse
Inverter output protection	Circuit breaker
AC MV output protection	Circuit breaker
Overvoltage protection	DC Type I + II / AC Type II
Grid monitoring / Ground fault monitoring	Yes / Yes
Insulation monitoring	Yes
Overheat protection	Yes
Q at night function	Optional
Anti-PID function	Optional

General Data

Dimensions (W*H*D)	6058*2896*2438 mm
Weight	18 T
Degree of protection	IP54 (Inverter: IP55)
Auxiliary power supply	415 V, 15 kVA (Optional: max. 40 kVA)
Operating ambient temperature range	-35 to 60 °C (> 50 °C derating)
Allowable relative humidity range (non-condensing)	0 – 95 %
Cooling method	Temperature controlled forced air cooling
Max. operating altitude	1000 m (standard) / > 1000 m (optional)
Display	Touch screen
Communication	Standard: RS485, Ethernet; Optional: optical fiber
Compliance	CE, IEC 62109, IEC 62116, IEC 61727
Grid support	Q at night function (optional), L/HVRT, active & reactive power control and power ramp rate control
Type designation	SG3125HV-MV-20



SG2500HV-MV-20

MV Turnkey Station for 1500 Vdc System - MV Separate Transformer + RMU



High Yield

- Advanced three-level technology, max. efficiency 99%
- Effective cooling, full power operation at 50 °C



Easy O&M

- Integrated current, voltage and MV parameters monitoring function for online analysis and fast trouble shooting
- Modular design, easy for maintenance
- Convenient external touch screen



Saved Investment

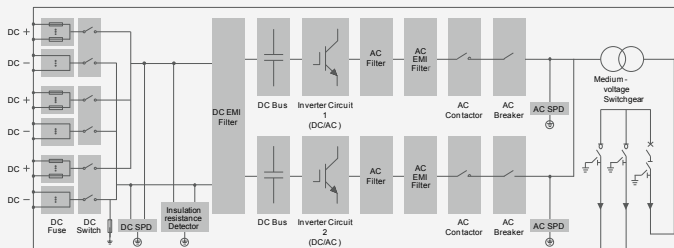
- Low transportation and installation cost due to 20-foot container design
- DC 1500 V system, low system cost
- Integrated MV transformer, switchgear and LV auxiliary power supply
- Q at night function



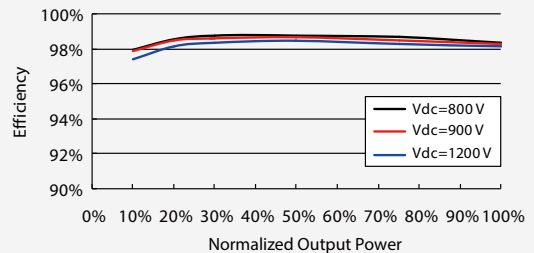
Grid Support

- Compliance with standards: IEC 61727, IEC 62116
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

Circuit Diagram



Inverter Efficiency Curve



Input (DC)
SG2500HV-MV-20

Max. PV input voltage	1500V
Min. PV input voltage / Startup input voltage	800 V / 840 V
MPP voltage range for nominal power	800 – 1300 V
No. of independent MPP inputs	1
No. of DC inputs	18 – 24
Max. PV input current	3508 A
Max. DC short-circuit current	4210 A
PV array configuration	Negative grounding or floating

Output (AC)

AC output power	2750 kVA@ 45 °C / 2500 kVA@ 50 °C
Max. inverter output current	2886 A
AC voltage range	10 – 35 kV
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % In
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading to 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Inverter max. efficiency / Inverter Euro. efficiency	99.0 % / 98.7 %
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Transformer

Transformer rated power	2500 kVA
Transformer max. power	2750 kVA
LV / MV voltage	0.55 kV / 10 – 35 kV
Transformer vector	Dy11
Transformer cooling type	ONAN (Oil Natural Air Natural)
Oil type	Mineral oil (PCB free) or degradable oil on request

Protection

DC input protection	Load break switch + fuse
Inverter output protection	Circuit breaker
AC MV output protection	Circuit breaker
Overvoltage protection	DC Type I+II / AC Type II
Grid monitoring / Ground fault monitoring	Yes / Yes
Insulation monitoring	Yes
Overheat protection	Yes
Q at night function	Yes

General Data

Dimensions (W*H*D)	6058*2896*2438 mm
Weight	18 T
Degree of protection	IP54
Auxiliary power supply	Optional: Max. 40 kVA
Operating ambient temperature range	-35 to 60 °C (> 50 °C derating)
Allowable relative humidity range (non-condensing)	0 – 95 %
Cooling method	Temperature controlled forced air cooling
Max. operating altitude	1000 m (standard) / > 1000 m (optional)
Display	Touch screen
Communication	Standard: RS485, Ethernet; Optional: optical fiber
Compliance	CE, IEC 62109, IEC 61727, IEC 62116
Grid support	Q at night function, L/HVRT, active & reactive power control and power ramp rate control
Type designation	SG2500HV-MV-20



SG3150U-MV New

Turnkey Station for North America 1500 Vdc System - MV Transformer Integrated



High Yield

- Advanced three-level technology, max. inverter efficiency 98.8%, inverter CEC efficiency 98.5 %
- Max. DC/AC ratio more than 1.5



Easy O&M

- Integrated current, voltage and MV parameters monitoring function for online analysis and fast trouble shooting
- Modular design, easy for maintenance
- Convenient external LCD



Saved Investment

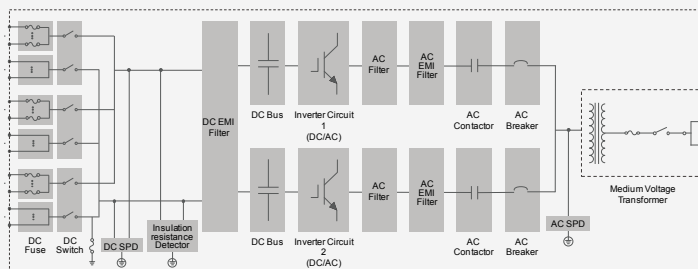
- Low transportation and installation cost due to 20-foot container design
- 1500V DC system, low system cost
- Integrated MV transformer and LV auxiliary power supply



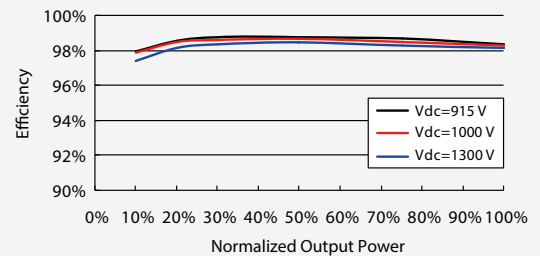
Grid Support

- Complies with UL 1741, UL 1741 SA, IEEE 1547, Rule 21 and NEC 2014/2017
- Grid support including L/HVRT, L/HFRT, active & reactive power control and power ramp rate control

Circuit Diagram



Inverter Efficiency Curve



Input (DC)**SG3150U-MV**

Max. PV input voltage	1500V
Min. PV input voltage / Startup input voltage	915 V / 955 V
MPP voltage range for nominal power	940 – 1300 V
No. of independent MPP inputs	1
No. of DC inputs	18 – 24
Max. PV input current	3420 A
Max. DC short-circuit current	4800 A
PV array configuration	Negative grounding

Output (AC)

AC output power	3150 kVA @ 45 °C (113 °F)
Max. inverter output current	2886 A
AC voltage range	34.5 kV
Nominal grid frequency / Grid frequency range	60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % I _n
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Inverter max. efficiency / Inverter CEC efficiency	98.8 % / 98.5 %
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Transformer

Transformer rated power	3150 kVA
Transformer max. power	3150 kVA
LV / MV voltage	0.63 kV / 34.5 kV
Transformer vector	Dy1
Transformer cooling type	ONAN (Oil Natural Air Natural)
Oil type	Mineral oil (PCB free) or degradable oil on request

Protection

DC input protection	Load break switch + fuse
Inverter output protection	Circuit breaker
AC MV output protection	Load break switch + fuse
Overvoltage protection	DC Type II / AC Type II
Grid monitoring / Ground fault monitoring	Yes / Yes
Insulation monitoring	Optional
Overheat protection	Yes

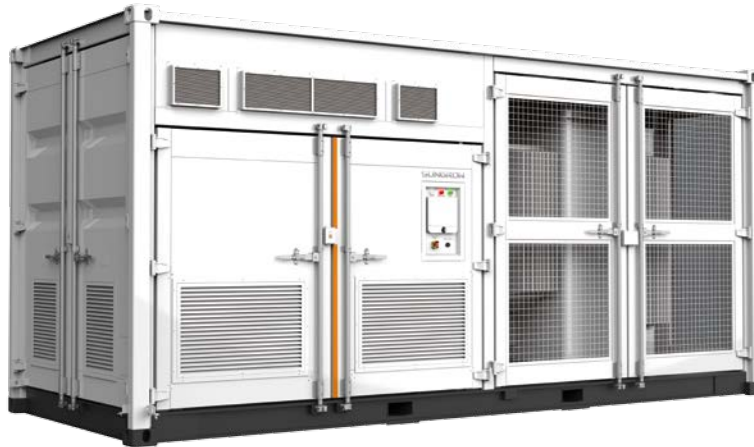
General Data

Dimensions (W*H*D)	6058*2896*2438 mm (238.5**114.0**96.0")
Weight	18 T (39683.2 lbs)
Degree of protection	NEMA 3R
Auxiliary power supply	120 Vac, 5 kVA / Optional: 480 Vac, 30 kVA
Operating ambient temperature range	-30 to 60 °C (> 45 °C derating) (-22 to 140 °F (> 113 °F derating))
Allowable relative humidity range (non-condensing)	0 – 95 %
Cooling method	Temperature controlled forced air cooling
Max. operating altitude	1000 m (standard) / > 1000 m (optional) (3280.8 ft (standard) / > 3280.8 ft (optional))
Display	Touch screen
Communication	Standard: RS485, Ethernet; Optional: optical fiber
Compliance	UL 1741, IEEE 1547, UL1741 SA, NEC 2014/2017, CSA C22.2 No.107.1-01
Grid support	Q at night function (optional), L/HVRT, L/HFRT, active & reactive power control and power ramp rate control, Volt-var, Frequency-watt



SG2500U-MV

Turnkey Station for North America 1500 Vdc System - MV Transformer Integrated



High Yield

- Advanced three-level technology, max. inverter efficiency 98.8%, inverter CEC efficiency 98.5 %
- Effective cooling, 1.1 overload capacity, no derating up to 50 °C
- Max. DC/AC ratio more than 1.5



Easy O&M

- Integrated current, voltage and MV parameters monitoring function for online analysis and fast trouble shooting
- Modular design, easy for maintenance
- Convenient external LCD



Saved Investment

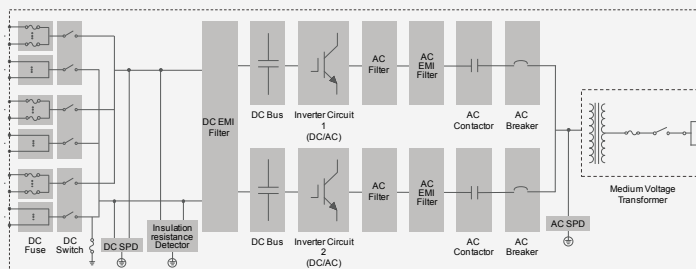
- Low transportation and installation cost due to 20-foot container design
- 1500V DC system, low system cost
- Integrated MV transformer and LV auxiliary power supply



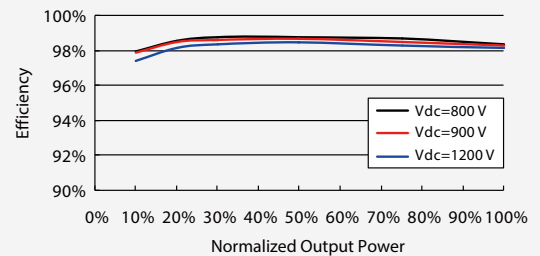
Grid Support

- Complies with UL 1741, UL 1741 SA, IEEE 1547, Rule 21 and NEC 2014/2017
- Grid support including L/HVRT, L/HFRT, power ramp rate control, active and reactive power support

Circuit Diagram



Inverter Efficiency Curve



Input (DC)**SG2500U-MV**

Max. PV input voltage	1500V
Min. PV input voltage / Startup input voltage	800 V / 840 V
MPP voltage range for nominal power	800 – 1300 V
No. of independent MPP inputs	1
No. of DC inputs	18 – 21
Max. PV input current	3508 A
Max. DC short-circuit current	4800 A
PV array configuration	Negative grounding

Output (AC)

AC output power	2750 kVA @ 45 °C (113 °F) / 2500 kVA @ 50 °C (122 °F)
Max. inverter output current	2886 A
AC voltage range	34.5 kV
Nominal grid frequency / Grid frequency range	60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % I _n
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Inverter max. efficiency / Inverter CEC efficiency	98.8 % / 98.5 %
--	-----------------

Transformer

Transformer rated power	2500 kVA
Transformer max. power	2750 kVA
LV / MV voltage	0.55 kV / 34.5 kV
Transformer vector	Dy1
Transformer cooling type	ONAN (Oil Natural Air Natural)
Oil type	Mineral oil (PCB free) or degradable oil on request

Protection

DC input protection	Load break switch + fuse
Inverter output protection	Circuit breaker
AC MV output protection	Load break switch + fuse
Overvoltage protection	DC Type II / AC Type II
Grid monitoring / Ground fault monitoring	Yes / Yes
Insulation monitoring	Optional
Overheat protection	Yes

General Data

Dimensions (W*H*D)	6058*2896*2438 mm (238.5"*114.0"*96.0")
Weight	18 T (39683.2 lbs)
Degree of protection	NEMA 3R
Auxiliary power supply	120 Vac, 5 kVA / Optional: 480 Vac, 30 kVA
Operating ambient temperature range	-30 to 60 °C (> 50 °C derating) (-22 to 140 °F (> 122 °F derating))
Allowable relative humidity range (non-condensing)	0 – 95 %
Cooling method	Temperature controlled forced air cooling
Max. operating altitude	1000 m (standard) / > 1000 m (optional) (3280.8 ft (standard) / > 3280.8 ft (optional))
Display	Touch screen
Communication	Standard: RS485, Ethernet; Optional: optical fiber
Compliance	UL 1741, IEEE 1547, UL1741 SA, NEC 2014/2017, CSA C22.2 No.107.1-01
Grid support	Q at night function (optional), L/HVRT, L/HFRT, active & reactive power control and power ramp rate control, Volt-var, Frequency-watt



SG3400HV-20

Turnkey Station for 1500 Vdc System



High Yield

- Advanced three-level technology, max. inverter efficiency 99 %
- Effective cooling, full power operation at 45 °C



Easy O&M

- Integrated current and voltage monitoring function for online analysis and fast trouble shooting
- Modular design, easy for maintenance
- Convenient external touch screen



Saved Investment

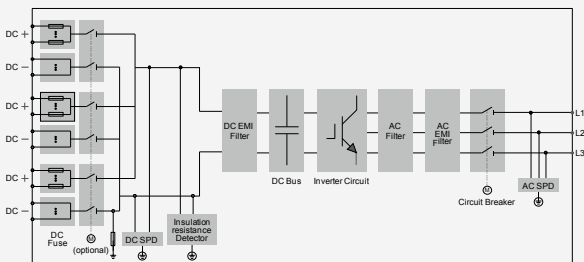
- Low transportation and installation cost due to 10-foot container design
- DC 1500 V system, low system cost
- Integrated LV auxiliary power supply
- Q at night function optional



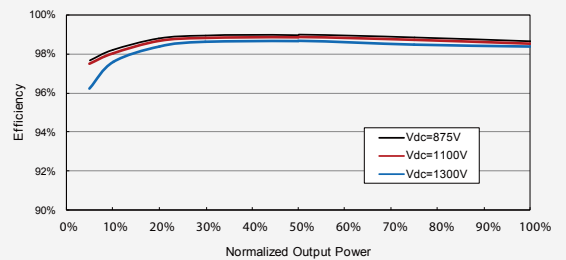
Grid Support

- Compliance with standards: IEC 62116, IEC 61727
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

Circuit Diagram



Inverter Efficiency Curve



Input (DC)**SG3400HV-20**

Max. PV input voltage	1500 V
Min. PV input voltage / Startup input voltage	875 V / 915 V
MPP voltage range for nominal power	875 – 1300 V
No. of independent MPP inputs	1
No. of DC inputs	21 (optional: 24 negative grounding or floating; 28 negative grounding)
Max. PV input current	4178 A

Output (AC)

AC output power	3593 kVA @ 25 °C / 3437 kVA @ 45 °C
Max. AC output current	3458 A
Nominal AC voltage	600 V
AC voltage range	480 – 690 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % I _n
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Max. efficiency / Euro. efficiency	99.0 % / 98.7 %
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Protection and Function

DC input protection	Load break switch + fuse
AC output protection	Circuit breaker
Overvoltage protection	DC Type I + II / AC Type II
Grid monitoring / Ground fault monitoring	Yes / Yes
Insulation monitoring	Yes
Overheat protection	Yes
Q at night function	Optional
Anti-PID function	Optional

General Data

Dimensions (W*H*D)	2991*2591*2438 mm
Weight	6.5 T
Isolation method	Transformerless
Degree of protection	IP55
Auxiliary power supply	415 V, 15 kVA (Optional: max. 40 kVA)
Operating ambient temperature range	-35 to 60 °C (> 45 °C derating)
Allowable relative humidity range (non-condensing)	0 – 95 %
Cooling method	Temperature controlled forced air cooling
Max. operating altitude	4000 m (> 2300 m derating)
Display	Touch screen
Communication	Standard: RS485, Ethernet; Optional: optical fiber
Compliance	CE, IEC 62109, IEC 62116, IEC 61727
Grid support	Q at night function (optional), L/HVRT, active & reactive power control and power ramp rate control
Type designation	SG3400HV-20



SG3125HV-20

Turnkey Station for 1500 Vdc System



High Yield

- Advanced three-level technology, max. efficiency 99%
- Effective cooling, full power operation at 50 °C



Easy O&M

- Integrated current and voltage monitoring function for online analysis and fast trouble shooting
- Modular design, easy for maintenance
- Convenient external touch screen



Saved Investment

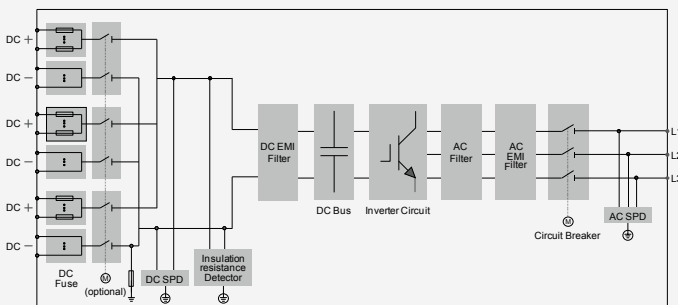
- Low transportation and installation cost due to 10-foot container design
- DC 1500 V system, low system cost
- Integrated LV auxiliary power supply
- Q at night function optional



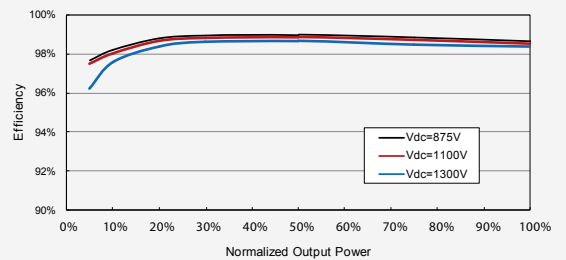
Grid Support

- Compliance with standards: IEC 62116, IEC 61727
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

Circuit Diagram



Inverter Efficiency Curve



Input (DC)**SG3125HV-20**

Max. PV input voltage	1500 V
Min. PV input voltage / Startup input voltage	875 V / 915 V
MPP voltage range for nominal power	875 – 1300 V
No. of independent MPP inputs	1
No. of DC inputs	21 (optional: 24 negative grounding or floating; 28 negative grounding)
Max. PV input current	4178 A

Output (AC)

AC output power	3593 kVA@ 25 °C / 3437 kVA@ 45 °C / 3125 kVA@ 50 °C
Max. AC output current	3458 A
Nominal AC voltage	600 V
AC voltage range	480 – 690 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % I _n
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Max. efficiency / Euro. efficiency	99.0 % / 98.7 %
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Protection and Function

DC input protection	Load break switch + fuse
AC output protection	Circuit breaker
Overvoltage protection	DC Type I + II / AC Type II
Grid monitoring / Ground fault monitoring	Yes / Yes
Insulation monitoring	Yes
Overheat protection	Yes
Q at night function	Optional
Anti-PID function	Optional

General Data

Dimensions (W*H*D)	2991*2591*2438 mm
Weight	6.5 T
Isolation method	Transformerless
Degree of protection	IP55
Auxiliary power supply	415 V, 15 kVA (Optional: max. 40 kVA)
Operating ambient temperature range	-35 to 60 °C (> 50 °C derating)
Allowable relative humidity range (non-condensing)	0 – 95 %
Cooling method	Temperature controlled forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display	Touch screen
Communication	Standard: RS485, Ethernet; Optional: optical fiber
Compliance	CE, IEC 62109, IEC 62116, IEC 61727
Grid support	Q at night function (optional), L/HVRT, active & reactive power control and power ramp rate control
Type designation	SG3125HV-20



SG2500HV-20

Turnkey Station for 1500 Vdc System



High Yield

- Advanced three-level technology, max. efficiency 99 %
- Effective cooling, full power operation at 50 °C



Easy O&M

- Integrated current and voltage monitoring function for online analysis and fast trouble shooting
- Modular design, easy for maintenance
- Convenient external touch screen



Saved Investment

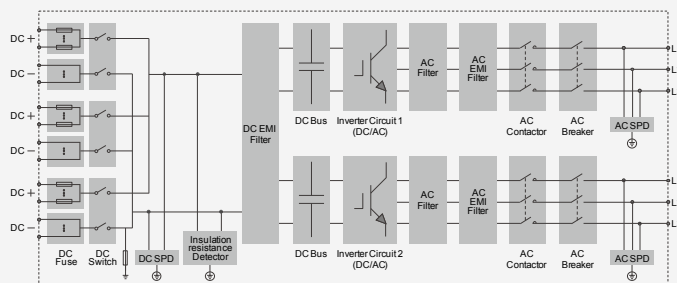
- Low transportation and installation cost due to 10-foot container design
- DC 1500 V system, low system cost
- Integrated LV auxiliary power supply
- Q at night function



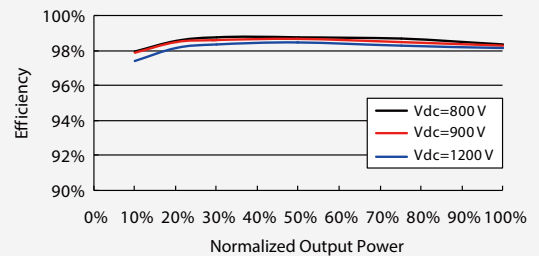
Grid Support

- Compliance with standards: IEC 61727, IEC 62116
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

Circuit Diagram



Efficiency Curve



Input (DC)**SG2500HV-20**

Max. PV input voltage	1500V
Min. PV input voltage / Startup input voltage	800 V / 840 V
MPP voltage range for nominal power	800 – 1300 V
No. of independent MPP inputs	1
No. of DC inputs	18 – 24
Max. PV input current	3508 A
Max. DC short-circuit current	4210 A
PV array configuration	Negative grounding or floating

Output (AC)

Max. AC output power	2750 kVA@ 45 °C / 2500 kVA@ 50 °C
Max. AC output current	2886 A
Nominal AC voltage	550 V
AC voltage range	495 – 605 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % In
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Max. efficiency / Euro. efficiency	99.0 % / 98.7 %
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Protection

DC input protection	Load break switch + fuse
AC output protection	Circuit breaker
Overvoltage protection	DC Type I + II / AC Type II
Grid monitoring / Ground fault monitoring	Yes / Yes
Insulation monitoring	Yes
Overheat protection	Yes
Q at night function	Yes
Anti-PID function	Optional

General Data

Dimensions (W*H*D)	2991*2591*2438 mm
Weight	6.5 T
Isolation method	Transformerless
Degree of protection	IP54
Auxiliary power supply	Optional:Max. 40 kVA
Operating ambient temperature range	-35 to 60 °C (> 50 °C derating)
Allowable relative humidity range (non-condensing)	0 – 95 %
Cooling method	Temperature controlled forced air cooling
Max. operating altitude	4000 m (> 2000 m derating)
Display	Touch screen
Communication	Standard: RS485, Ethernet; Optional: optical fiber
Compliance	CE, IEC 62109, IEC 61727, IEC 62116
Grid support	Q at night function, L/HVRT, active & reactive power control and power ramp rate control
Type designation	SG2500HV-20



SG3150U New

Turnkey Station for North America 1500 Vdc System



High Yield

- Advanced three-level technology, max. efficiency 98.8%, CEC efficiency 98.5 %
- Max. DC/AC ratio more than 1.5



Easy O&M

- Integrated current and voltage monitoring function for online analysis and fast trouble shooting
- Modular design, easy for maintenance
- Convenient external LCD



Saved Investment

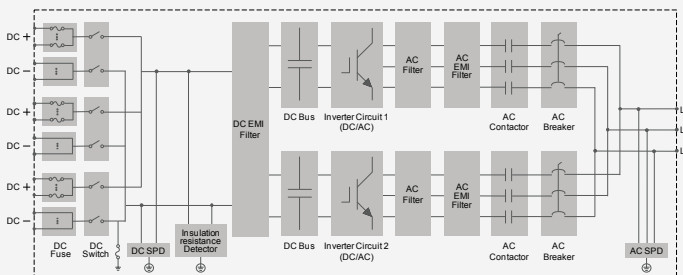
- Low transportation and installation cost due to 10-foot container design
- 1500V DC system, low system cost
- Integrated LV auxiliary power supply



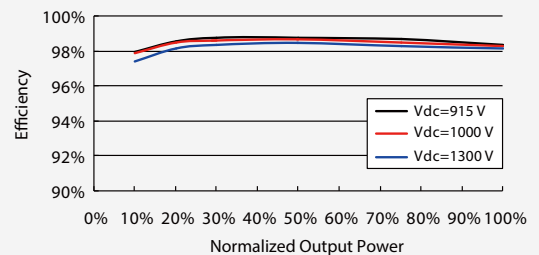
Grid Support

- Complies with UL 1741, UL 1741 SA, IEEE 1547, Rule 21 and NEC 2014/2017
- Grid support including L/HVRT, L/HFRT, power ramp rate control, active and reactive power support

Circuit Diagram



Efficiency Curve



Input (DC)**SG3150U**

Max. PV input voltage	1500V
Min. PV input voltage / Startup input voltage	915 V / 955 V
MPP voltage range for nominal power	940 – 1300 V
No. of independent MPP inputs	1
No. of DC inputs	18 – 24
Max. PV input current	3420 A
Max. DC short-circuit current	4800 A

Output (AC)

AC output power	3150 kVA @ 45 °C (113 °F)
Max. AC output current	2886 A
Nominal AC voltage	630 V
AC voltage range	554 - 690 V
Nominal grid frequency / Grid frequency range	60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % of nominal output current
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Max. efficiency / CEC efficiency	98.8 % / 98.5 %
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Protection

DC input protection	Load break switch + fuse
AC output protection	Circuit breaker
Overvoltage protection	DC Type II / AC Type II
Grid monitoring / Ground fault monitoring	Yes / Yes
Insulation monitoring	Optional
Q at night function	Optional
Overheat protection	Yes

General Data

Dimensions (W*H*D)	2991*2896*2438 mm (117.8**114.0**96.0")
Weight	6.9 T (15211.9 lbs)
Isolation method	Transformerless
Degree of protection	NEMA 3R
Auxiliary power supply	120 Vac, 5 kVA / Optional: 480 Vac, 30 kVA
Operating ambient temperature range	-30 to 60 °C (> 45 °C derating) (-22 to 140 °F (> 113 °F derating))
Allowable relative humidity range (non-condensing)	0 – 95 %
Cooling method	Temperature controlled forced air cooling
Max. operating altitude	4000 m (> 2000 m derating) (13123 ft (> 6561 ft derating))
Display	Touch screen
Communication	Standard: RS485, Ethernet; Optional: optical fiber
Compliance	UL 1741, IEEE 1547, UL1741 SA, NEC 2014/2017, CSA C22.2 No.107.1-01
Grid support	L/HVRT, L/HFRT, active & reactive power control and power ramp rate control, Volt-var, Frequency-watt



SG2500U

Turnkey Station for North America **1500 Vdc** System



High Yield

- Advanced three-level technology, max. efficiency 98.8%, CEC efficiency 98.5 %
- Effective cooling, 1.1 overload capacity, no derating up to 50 °C
- Max. DC/AC ratio more than 1.5



Easy O&M

- Integrated current and voltage monitoring function for online analysis and fast trouble shooting
- Modular design, easy for maintenance
- Convenient external LCD



Saved Investment

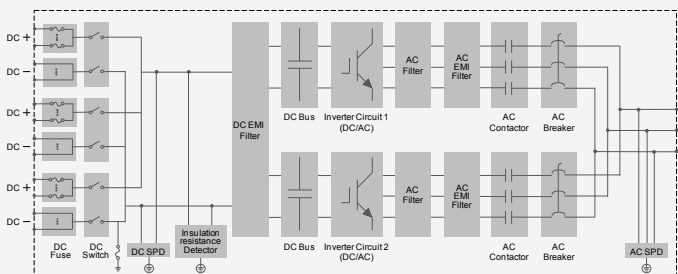
- Low transportation and installation cost due to 10-foot container design
- 1500V DC system, low system cost
- Integrated LV auxiliary power supply



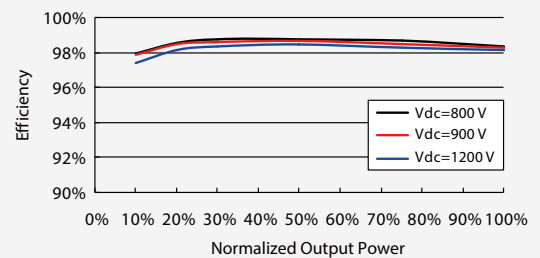
Grid Support

- Complies with UL 1741, UL 1741 SA, IEEE 1547, Rule 21 and NEC 2014/2017
- Grid support including L/HVRT, L/HFRT, power ramp rate control, active and reactive power support

Circuit Diagram



Efficiency Curve



Input (DC)**SG2500U**

Max. PV input voltage	1500V
Min. PV input voltage / Startup input voltage	800 V / 840 V
MPP voltage range for nominal power	800 – 1300 V
No. of independent MPP inputs	1
No. of DC inputs	18 – 21
Max. PV input current	3508 A
Max. DC short-circuit current	4800 A
PV array configuration	Negative grounding

Output (AC)

AC output power	2750 kVA @ 45 °C (113 °F) / 2500 kVA @ 50 °C (122 °F)
Max. AC output current	2886 A
Nominal AC voltage	550 V
AC voltage range	484 - 605 V
Nominal grid frequency / Grid frequency range	60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % In
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Max. efficiency / CEC efficiency	98.8 % / 98.5 %
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Protection

DC input protection	Load break switch + fuse
AC output protection	Circuit breaker
Overvoltage protection	DC Type II / AC Type II
Grid monitoring / Ground fault monitoring	Yes / Yes
Insulation monitoring	Optional
Q at night function	Optional
Overheat protection	Yes

General Data

Dimensions (W*H*D)	2991*2896*2438 mm (117.8**114.0**96.0")
Weight	6.9 T (15211.9 lbs)
Isolation method	Transformerless
Degree of protection	NEMA 3R
Auxiliary power supply	120 Vac, 5 kVA / Optional: 480 Vac, 30 kVA
Operating ambient temperature range	-30 to 60 °C (> 50 °C derating) (-22 to 140 °F (> 122 °F derating))
Allowable relative humidity range (non-condensing)	0 – 95 %
Cooling method	Temperature controlled forced air cooling
Max. operating altitude	4000 m (> 2000 m derating) (13123 ft (> 6561 ft derating))
Display	Touch screen
Communication	Standard: RS485, Ethernet; Optional: optical fiber
Compliance	UL 1741, IEEE 1547, UL1741 SA, NEC 2014/2017, CSA C22.2 No.107.1-01
Grid support	Q at night function (optional), L/HVRT, L/HFRT, active & reactive power control and power ramp rate control, Volt-var, Frequency-watt



SG2000-MV/SG2500-MV

Turnkey Station for 1000 Vdc System - MV Pad-mounted Transformer or Separate Transformer + RMU



High Yield

- Efficient three-level topology, max. inverter efficiency up to 99 %
- 1 or 4 MPPT, wide MPP voltage range
- Full power operation without derating at 50 °C
- One inverter unit fails, the other unit continues operation



Easy O&M

- Integrated zone current monitoring function for fast trouble shooting
- Module design and front service, easy for maintenance
- DC circuit breaker design for convenient maintenance



Saved Investment

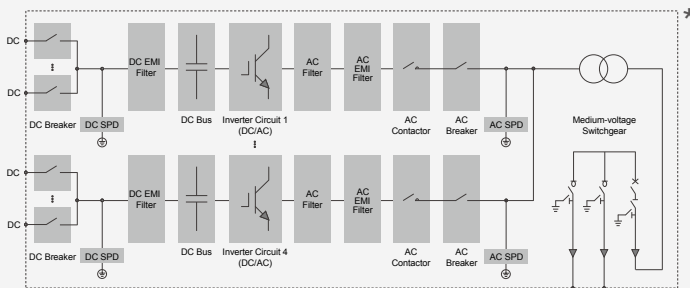
- 20-foot container design, no need to build extra inverter house
- Integrated MV transformer and LV auxiliary power supply



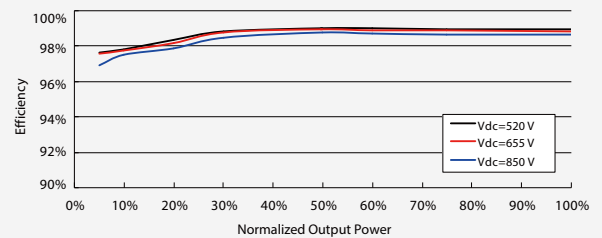
Grid Support

- Compliance with standards: CE, IEC 62109
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

Circuit Diagram



Inverter Efficiency Curve



Input (DC)	SG2000-MV	SG2500-MV
Max. PV input voltage	1000V	
Min. PV input voltage / Startup input voltage	460 V / 500 V	520 V / 540 V
MPP voltage range for nominal power	460 – 850 V	520 – 850 V
No. of independent MPP inputs	1 or 4	
No. of DC inputs	24 – 32	
Max. PV input current	4880 A	5424 A
Max. DC short-circuit current	5840 A	6780 A
Output (AC)		
AC output power	2200 kVA @ 45 °C / 2000 kVA @ 50 °C	2772 kVA @ 45 °C / 2520 kVA @ 50 °C
Max. inverter output current	4032 A	4444 A
AC voltage range	10 – 35 kV	
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz	
THD	< 3 % (at nominal power)	
DC current injection	< 0.5 % I _n	
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	3 / 3	
Efficiency		
Inverter max. efficiency / Inverter European efficiency	99.0 % / 98.7 %	
Transformer		
Transformer rated power	2000 kVA	2520 kVA
Transformer max. power	2200 kVA	2772 kVA
LV / MV voltage	0.315 kV / 10 – 35 kV	0.360 kV / 10 – 35 kV
Transformer vector	Dy11	
Oil type	Mineral oil (PCB free) or degradable oil on request	
Protection		
DC input protection	Circuit breaker	
Inverter output protection	Circuit breaker	
AC output protection	Circuit breaker * / Load break switch + fuse **	
Overvoltage protection	DC Type II / AC Type II	
Grid monitoring / Ground fault monitoring	Yes / Yes	
Insulation monitoring	Yes	
Overheat protection	Yes	
Anti-PID function	Optional	
General Data		
Dimensions (W*H*D)	6058*2896*2438 mm	
Weight	17 T	
Degree of protection	IP54	
Auxiliary power supply	220 Vac, 2 kVA / Optional: 415 Vac, up to 40 kVA	
Operating ambient temperature range	-35 to 60 °C (> 50 °C derating)	
Allowable relative humidity range (non-condensing)	0 – 95 %	
Cooling method	Temperature controlled forced air cooling	
Max. operating altitude	1000 m (standard) / > 1000 m (optional)	
Display	Touch screen	
Communication	Standard: RS485, Ethernet; Optional: optical fiber	
Compliance	CE, IEC 62109	
Grid support	LVRT, HVRT, active & reactive power control and power ramp rate control	
Type designation	SG2000-MV-S/SG2000-MV-C	SG2500-MV-S/SG2500-MV-C

*:available for SG2000-MV-S/SG2500-MV-S

** :available for SG2000-MV-C/SG2500-MV-C



SG2000/SG2500

Turnkey Station for 1000 Vdc System



High Yield

- Efficient three-level topology, max. system efficiency up to 99 %
- 1 or 4 MPPT, wide MPP voltage range
- Full power operation without derating at 50 °C
- One inverter unit fails, the other units continue operation



Easy O&M

- Integrated zone current monitoring function for fast trouble shooting
- Module design and front service, easy for maintenance
- DC circuit breaker design for convenient maintenance



Saved Investment

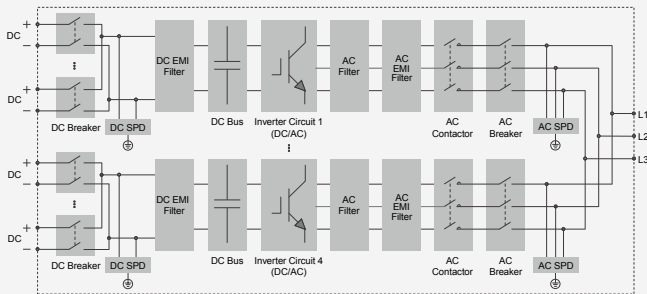
- 10-foot container design, no need to build extra inverter house
- Integrated LV auxiliary power supply



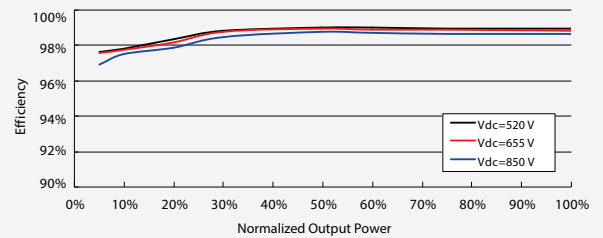
Grid Support

- Compliance with standards: CE, IEC 62109, IEC 61727, IEC 62116, G59/3
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

Circuit Diagram



Efficiency Curve



Input (DC)	SG2000	SG2500
Max. PV input voltage	1000 V	
Min. PV input voltage / Startup input voltage	460 V / 500 V	520 V / 540 V
MPP voltage range for nominal power	460 – 850 V	520 – 850 V
No. of independent MPP inputs	1 or 4	
No. of DC inputs	24 – 32	
Max. PV input current	4880 A	5424 A
Max. DC short-circuit current	5840 A	6780 A
Output (AC)		
AC output power	2200 kVA @ 45 °C / 2000 kVA @ 50 °C	2772 kVA @ 45 °C / 2520 kVA @ 50 °C
Max. AC output current	4032 A	4444 A
Nominal AC voltage	315 V	360 V
AC voltage range	252 – 362 V	288 – 414 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz	
THD	< 3 % (at nominal power)	
DC current injection	< 0.5 % I _n	
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	3 / 3	
Efficiency		
Max. efficiency / Euro. efficiency	99.0 % / 98.7 %	
Protection		
DC input protection	Circuit breaker	
AC output protection	Circuit breaker	
Overvoltage protection	DC Type II / AC Type II	
Grid monitoring / Ground fault monitoring	Yes / Yes	
Insulation monitoring	Yes	
Overheat protection	Yes	
Anti-PID function	Optional	
General Data		
Dimensions (W*H*D)	2991*2591*2438 mm	
Weight	6 T	
Isolation method	Transformerless	
Degree of protection	IP54	
Auxiliary power supply	220 Vac, 2 kVA / Optional: 415 Vac, up to 40 kVA	
Operating ambient temperature range	-35 to 60 °C (> 50 °C derating)	
Allowable relative humidity range (non-condensing)	0 – 95 %	
Cooling method	Temperature controlled forced air cooling	
Max. operating altitude	5000 m (> 3000 m derating)	
Display	Touch screen	
Communication	Standard: RS485, Ethernet; Optional: optical fiber	
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, CE, G59/3, CEA	
Grid Support	LVRT, HVRT, active & reactive power control and power ramp rate control	
Type designation	SG2000	SG2500



SG1250UD/SG1500UD

Outdoor Inverter for 1000 Vdc System



High Yield

- Efficient three-level topology, max. efficiency up to 99 %, European efficiency 98.7 %
- Full power operation without derating at 50 °C
- Long-time overload at 1.1 Pn
- DC/AC ratio up to 1.5



Easy O&M

- Integrated zone current monitoring function for fast trouble shooting
- Modular design easy for maintenance
- IP65 protection



Saved Investment

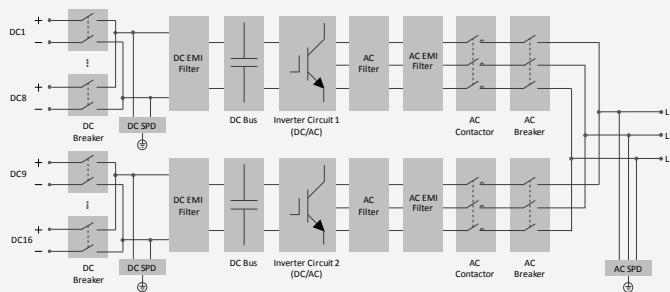
- Can be connected to double-winding transformer, saving transformer costs
- Q at night function optional



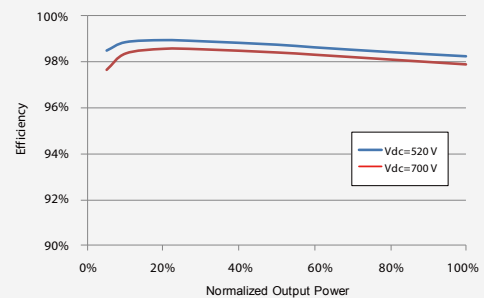
Grid Support

- Compliance with standards: CE, IEC 62109, IEC 61727, IEC 62116
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

Circuit Diagram



Efficiency Curve



Input (DC)	SG1250UD	SG1500UD
Max. PV input voltage	1100 V	1100 V
Min. PV input voltage / Startup input voltage	520 V / 540 V	580 V / 600 V
MPP voltage range for nominal power	520 – 850 V	580 – 850 V
No. of independent MPP inputs	2	
No. of DC inputs	16	
Max. PV input current	2712 A	2896 A
Max. DC short-circuit current	3200 A	
Output (AC)		
Nominal AC power	1386 kVA @ 45 °C / 1260 kVA @ 50 °C	1650 kVA @ 45 °C / 1500 kVA @ 50 °C
Max. AC output current	2222 A	2381 A
Nominal AC voltage	360 V	400 V
AC voltage range	288 – 414 V	320 – 460 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz	
THD	< 3 % (at nominal power)	
DC current injection	< 0.5 % of nominal output current	
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	3 / 3	
Efficiency		
Max. efficiency / Euro. efficiency	99.0 % / 98.7 %	
Protection		
DC input protection	Circuit breaker	
AC output protection	Circuit breaker	
Overvoltage protection	DC Type II / AC Type II	
Grid monitoring / Ground fault monitoring	Yes / Yes	
Insulation monitoring	Yes	
Overheat protection	Yes	
Q at night function	Optional	
Anti-PID function	Optional	
General Data		
Dimensions (W*H*D)	2150*2120*850 mm	
Weight	1900 kg	
Isolation method	Transformerless	
Degree of protection	IP65	
Auxiliary power supply	220 Vac, 2 kVA	
Night power consumption	< 40 W	
Operating ambient temperature range	-35 to 60 °C (> 50 °C derating)	
Allowable relative humidity range (non-condensing)	0 – 95 %	
Cooling method	Temperature controlled forced air cooling	
Max. operating altitude	4500 m (> 3000 m derating)	
Display	Touch screen	
Communication	RS485, Ethernet	
Compliance	IEC62109-1, IEC62109-2, IEC61727, IEC62116	
Grid support	Q at night function (optional), LVRT, HVRT, active & reactive power control and power ramp rate control	
Type designation	SG1250UD	SG1500UD



SG500MX/SG630MX

Indoor Inverter for 1000 Vdc System



High Yield

- Efficient three-level topology, max. efficiency up to 99 %
- Long-time overload at 1.1 Pn
- Full power operation without derating at 55 °C



Easy O&M

- Integrated zone current monitoring function for fast trouble shooting
- Modular design and front service, easy for maintenance



Saved Investment

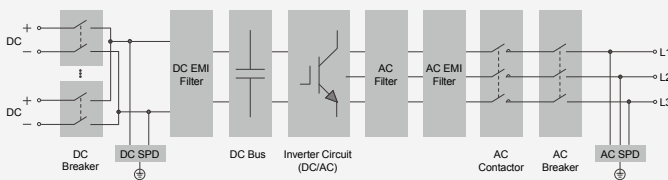
- Max. DC/AC ratio up to 1.3
- Q at night function optional



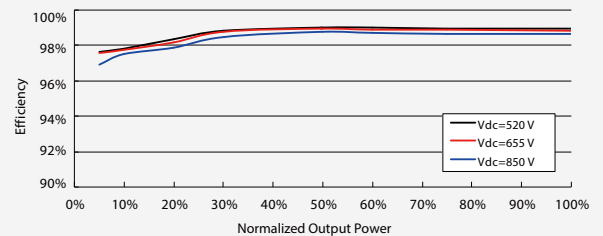
Grid Support

- Compliance with standards: CE, IEC 62109, IEC 61727, IEC 62116
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

Circuit Diagram



Efficiency Curve



Input (DC)	SG500MX	SG630MX
Max. PV input voltage	1000 V	
Min. PV input voltage / Startup input voltage	460 V / 500 V	520 V / 540 V
MPP voltage range for nominal power	460 – 850 V	520 – 850 V
No. of independent MPP inputs	1	
No. of DC inputs	6 – 8	
Max. PV input current	1220 A	1356 A
Max. DC short-circuit current	1460 A	1695 A
Output (AC)		
AC output power	550 kVA @ 50 °C / 500 kVA @ 55 °C	693 kVA @ 50 °C / 630 kVA @ 55 °C
Max. AC output current	1008 A	1111 A
Nominal AC voltage	315 V	360 V
AC voltage range	252 – 362 V	288 – 414 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz	
THD	< 3 % (at nominal power)	
DC current injection	< 0.5 % I _n	
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	3 / 3	
Efficiency		
Max. efficiency / Euro. efficiency	99.0 % / 98.7 %	
Protection		
DC input protection	Circuit breaker	
AC output protection	Circuit breaker	
Overvoltage protection	DC Type II / AC Type II	
Grid monitoring / Ground fault monitoring	Yes / Yes	
Insulation monitoring	Yes	
Overheat protection	Yes	
Q at night function	Optional	
Anti-PID function	Optional	
General Data		
Dimensions (W*H*D)	1005*1915*835 mm	
Weight	800 kg	
Isolation method	Transformerless	
Degree of protection	IP21	
Night power consumption	< 20 W	
Operating ambient temperature range	-30 to 65 °C (> 55 °C derating)	
Allowable relative humidity range (non-condensing)	0 – 95 %	
Cooling method	Temperature controlled forced air cooling	
Max. operating altitude	4500 m (> 3500 m derating)	
Display	Touch screen	
Communication	RS485 / Modbus, Ethernet	
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, CE, CEA	
Grid support	Q at night function (optional), LVVRT, HVVRT, active & reactive power control and power ramp rate control	
Type designation	SG500MX	SG630MX





String Inverter



SG125HV

SG111HV

SG110CX

SG80KTL-20

SG60KTL

SG33/40/50CX

SG50KTL-M-20

SG33KTL-M/SG36KTL-M

SG60KU-M

SG49K5J

SG33K3J

SG15KTL-M/SG20KTL-M

SG10KTL-M/SG12KTL-M

SG5KTL-MT/SG6KTL-MT/SG8KTL-M

SG2K-S/SG2K5-S/SG3K-S

SG3K-D/SG3K6-D/SG4K-D

/SG4K6-D/SG5K-D/SG6K-D

SH3K6/SH4K6

SG125HV

String Inverter for 1500 Vdc System



High Yield

- Patented five-level topology, max. efficiency 98.9 %, European efficiency 98.7 %, CEC efficiency 98.5 %
- Full power operation without derating at 50 °C
- Patented anti-PID function



Easy O&M

- Virtual central solution, easy for O&M
- Compact design and light weight for easy installation



Saved Investment

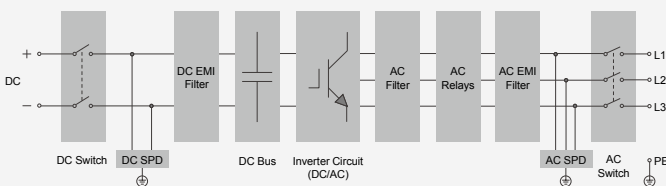
- DC 1500V, AC 600V, low system initial investment
- 1 to 5MW power block design for lower AC transformer and labor cost
- Max.DC/AC ratio up to 1.5



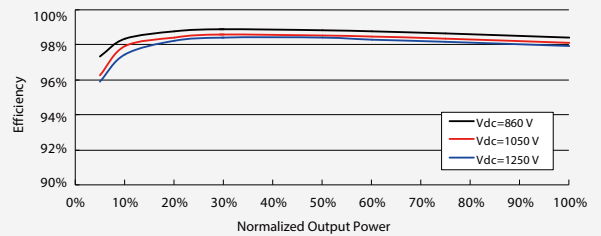
Grid Support

- Compliance with both IEC and UL safety, EMC and grid support regulations
- Low/High voltage ride through(L/HVRT)
- Active & reactive power control and power ramp rate control

Circuit Diagram



Efficiency Curve



Input (DC)**SG125HV**

Max. PV input voltage	1500 V
Min. PV input voltage / Start-up input voltage	860 V / 920 V
Nominal PV input voltage	1050 V
MPP voltage range	860 – 1450 V
MPP voltage range for nominal power	860 – 1250 V
No. of independent MPP inputs	1
No. of DC inputs	1
Max. PV input current	148 A
Max. DC short-circuit current	240 A

Output (AC)

AC output power	125000 VA @ 50 °C
Max. AC output current	120 A
Nominal AC voltage	3 / PE, 600 V
AC voltage range	480 – 690 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % In
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading - 0.8 lagging
Feed-in phases / connection phases	3 / 3

Efficiency

Max. efficiency / European efficiency	98.9% / 98.7%
CEC efficiency	98.5%

Protection

DC reverse connection protection	Yes
AC short-circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
DC switch / AC switch	Yes / Yes
Q at night function	optional
Anti-PID function	Yes
Overvoltage protection	DC Type II / AC Type II

General Data

Dimensions (W*H*D)	670*902*296 mm 26.4"*35.5"*11.7"
Weight	76 kg 167.5 lb
Isolation method	Transformerless
Degree of protection	IP 65 NEMA 4X
Night power consumption	< 4 W
Operating ambient temperature range	-25 to 60 °C (> 50 °C derating) -13 to 140 °F (> 122 °F derating)
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating) 13123 ft (> 9843 ft derating)
Display / Communication	LED, Bluetooth+APP / RS485
DC connection type	OT or DT terminal (Max. 185 mm ² 350 Kcmil)
AC connection type	OT or DT terminal (Max. 185 mm ² 350 Kcmil)
Compliance	UL1741, UL1741SA, IEEE1547, IEEE1547.1, CSA C22.2 107.1-01-2001, FCC Part15 Sub-part B Class A Limits, California Rule 21, IEC 62109-1/-2, IEC 61000-6-2/-4, IEC 61727, IEC62116, BDEW, UNE 206007-1:2013, P.O.12.3, UTE C15-712-1:2013, CEI 0-16:2017, IEC 61683, PEA, NTCO
Grid Support	Q at night function (optional), LVRT, HVRT, ZVRT, active & reactive power regulation, PF control, soft start/stop
Type designation	SG125HV-20



SG111HV

String Inverter for Japan 1500 Vdc System



High Yield

- Five-level topology, Max. efficiency 98.9%
- Max. DC/AC ratio up to 1.5
- Full power operation without derating at 50 °C



Easy O&M

- Virtual central solution, easy for O&M
- Anti-corrosion design
- Plug-in design of fan and SPD, easy for on-site maintenance



Saved Investment

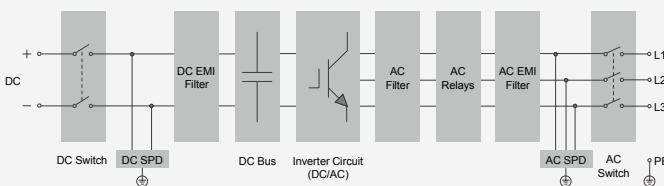
- DC 1500 V, low system cost and cable loss
- AC 540 V, high-voltage and ultra-high-voltage PV station application
- Suitable for horizontal and vertical installation



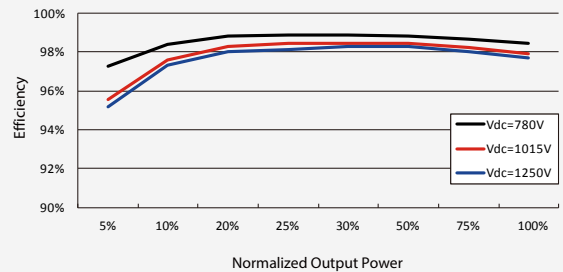
Grid Support

- Compliance with Japan utility grid standards
- Fault ride through (FRT) 2017
- Remote active power control

Circuit Diagram



Efficiency Curve



Input (DC)**SG111HV**

Max. PV input voltage	1500 V
Min. startup input voltage	835 V
Nominal input voltage	1015 V
MPP voltage range	780 – 1450 V
MPP voltage range for nominal power	780 – 1250 V
No. of independent MPP inputs	1
No. of PV strings	1
Max. PV input current	146 A
Max. DC short-circuit current	240 A

Output (AC)

AC output power	111000 VA @ 50 °C / 113000 VA @ 50 °C (settable)
Max. AC output current	121 A
Nominal AC current	118.7 A
Nominal AC voltage	3 / PE, 540 V
AC voltage range	432 – 648 V
Nominal grid frequency / Grid frequency range	50 Hz / 60 Hz, 45 - 55 Hz / 55 - 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % I _n
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Connection phases	3

Efficiency

Max. efficiency / Euro. efficiency	98.90 % / 98.70 %
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Protection

Grid protection	OVR / UVR / OFR / UFR
FRT	FRT 2017
DC reverse connection protection	Yes
Leakage current protection	Yes
AC short-circuit protection	Yes
DC Overvoltage protection	Type II
AC Overvoltage protection	Type II
DC switch / AC switch	Yes / Yes

General Data

Weight	76 kg
Dimensions (W*H*D)	670 * 902 * 296 mm
Isolation method	Transformerless
Degree of protection	IP65
Night power consumption	< 4 W
Operating ambient temperature range	-25 to 60 °C (> 50 °C derating)
Allowable relative humidity range	0 – 100 % (non-condensing)
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display / Communication	LED, Bluetooth+APP / RS485
DC connection type	OT or DT terminal (Max. 60 mm ²)
AC connection type	OT or DT terminal (Max. 150 mm ²)
Grid support	Fault ride through (FRT) 2017, Remote active power control
Type designation	SG111HV



SG110CX New

Multi-MPPT String Inverter for 1000 Vdc System



High Yield

- 9 MPPTs with max. efficiency 98.7%
- Compatible with bifacial module
- Built-in PID recovery function optional



Smart O&M

- Touch free commissioning and remote firmware upgrade
- Online IV curve scan and diagnosis
- Fuse free design with smart string current monitoring



Low Cost

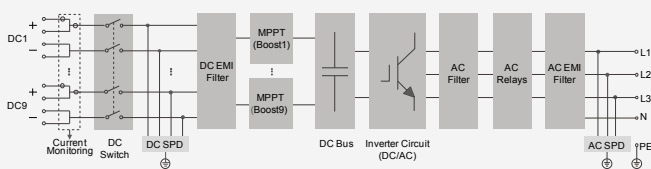
- Compatible with Al and Cu AC cables
- DC 2 in 1 connection enabled
- Q at night function



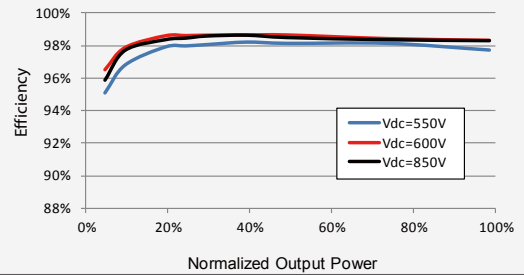
Proven Safety

- IP66 and C5 protection
- Type II SPD for both DC and AC
- Compliant with global safety and grid code

Circuit Diagram



Efficiency Curve



Input (DC)

Max. PV input voltage	1100 V
Min. PV input voltage / Startup input voltage	200 V / 250 V
Nominal PV input voltage	585 V
MPP voltage range	200 – 1000 V
MPP voltage range for nominal power	550V – 850 V
No. of independent MPP inputs	9
Max. number of PV strings per MPPT	2
Max. PV input current	26 A * 9
Max. current for input connector	30 A
Max. DC short-circuit current	40 A * 9

SG110CX**Output (AC)**

AC output power	110 kVA @ 45 °C / 100 kVA @ 50 °C
Max. AC output current	158.8 A
Nominal AC voltage	3 / N / PE, 400 V
AC voltage range	320 – 460 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % In
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / connection phases	3 / 3

Efficiency

Max. efficiency / Euro. efficiency	98.7 % / 98.5 %
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Protection

DC reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
Ground fault monitoring	Yes
DC switch / AC switch	Yes / No
PV String current monitoring	Yes
Q at night function	Yes
PID recovery function	Optional
Overvoltage protection	DC Type II / AC Type II

General Data

Dimensions (W*H*D)	1051*660*362.5 mm
Weight	85 kg
Isolation method	Transformerless
Ingress protection rating	IP66
Night power consumption	< 2W
Operating ambient temperature range	-30 to 60 °C (> 50 °C derating)
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display	LED, Bluetooth+APP
Communication	RS485 / Optional: Wi-Fi, Ethernet
DC connection type	MC4 (Max. 6 mm ²)
AC connection type	OT terminal (Max. 240 mm ²)
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018, VDE-AR-N 4120:2018, IEC 61000-6-3, EN 50438, AS/NZS 4777.2:2015, CEI 0-21, VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1:2013, DEWA
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control



SG80KTL-20

String Inverter for 1000 Vdc System



High Yield

- Max. efficiency 98.9 %, European efficiency 98.7 %
- Full power operation without derating at 50 °C



Easy O&M

- Integrated string current monitoring function for fast trouble shooting
- Compact design and light weight for easy installation
- Plug-in design of fan and SPD, convenient for on-site maintenance



Saved Investment

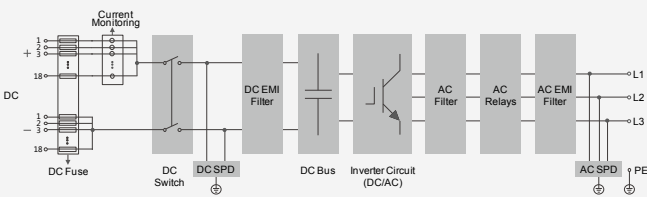
- Max. DC/AC ratio up to 1.4
- Integrated DC combiner box, both positive and negative DC fuse and DC/AC overvoltage protection



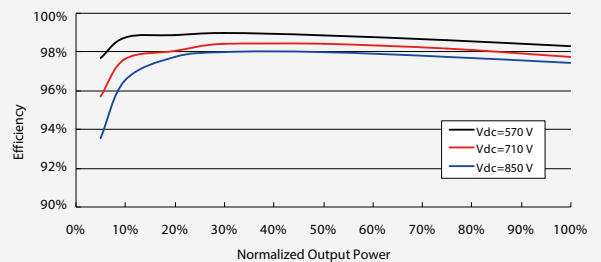
Grid Support

- Compliance with standards: CE, BDEW, VDE-AR-N 4120, IEC 62109, IEC 61727, IEC 62116
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

Circuit Diagram



Efficiency Curve



Input (DC)**SG80KTL-20**

Max. PV input voltage	1100 V
Min. PV input voltage / Startup input voltage	570 V / 620 V
Nominal input voltage	710 V
MPP voltage range	570 – 950 V
MPP voltage range for nominal power	570 – 850 V
No. of independent MPP inputs	1
Max. number of PV strings per MPPT	18
Max. PV input current	144 A
Max. current for input connector	12 A
Max. DC short-circuit current	200 A

Output (AC)

AC output power	80000 VA @ 50 °C
Max. AC output current	116 A
Nominal AC voltage	3 / PE, 230 / 400 V
AC voltage range	310 – 480 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % I _n
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Max. efficiency / Euro. efficiency	98.9 % / 98.7 %
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Protection

DC reverse connection protection	Yes
AC short-circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
DC switch / AC switch	Yes / No
DC fuse	Yes (positive and negative, 15A)
PV string current monitoring	Yes
Overvoltage protection	DC Type II / AC Type II

General Data

Dimensions (W*H*D)	634*957*267 mm
Weight	71 kg
Isolation method	Transformerless
Degree of protection	IP65
Night power consumption	< 4 W
Operating ambient temperature range	-25 to 60 °C (> 50 °C derating)
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display / Communication	Graphic LCD / RS485
DC connection type	MC4 (Max. 6mm ²)
AC connection type	Screw clamp terminal (Max. 150 mm ²)
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, CE, BDEW, CEA
Grid support	LVRT, HVRT, active & reactive power control and power ramp rate control
Type designation	SG80KTL-20



SG60KTL

String Inverter for 1000 Vdc System



High Yield

- Max. efficiency 98.9 %, European efficiency 98.7 %
- Long-time overload at 1.1 Pn
- Full power operation without derating at 50 °C



Easy O&M

- Compact design and light weight for easy installation
- Plug-in design of fan and SPD, convenient for on-site maintenance
- Integrated string current monitoring function for fast trouble shooting



Saved Investment

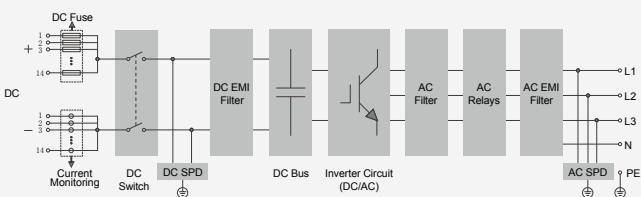
- Max. DC/AC ratio up to 1.4
- Integrated DC combiner box and DC/AC overvoltage protection



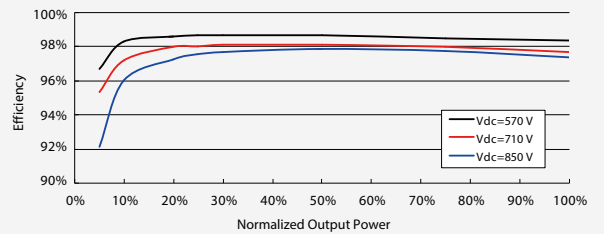
Grid Support

- Compliance with standards: IEC 62109, IEC 61727, IEC 62116, VDE0126-1-1, G59/3, VDE-AR-N-4105, VDE-AR-N-4120, BDEW
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

Circuit Diagram



Efficiency Curve



Input (DC)**SG60KTL**

Max. PV input voltage	1000 V
Min. PV input voltage / Startup input voltage	570 V / 620 V
Nominal input voltage	710 V
MPP voltage range	570 – 950 V
MPP voltage range for nominal power	570 – 850 V
No. of independent MPP inputs	1
Max. number of PV strings per MPPT	14
Max. PV input current	120 A
Max. current for input connector	12 A
Max. DC short-circuit current	140 A

Output (AC)

AC output power	66000 VA @ 45 °C / 60000 VA @ 50 °C
Max. AC output current	96 A
Nominal AC voltage	3 / N / PE or 3 / PE, 230 / 400 V
AC voltage range	310 – 480 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % I _n
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Max. efficiency / Euro. efficiency	98.9 % / 98.7 %
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Protection

DC reverse connection protection	Yes
AC short-circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
DC switch / AC switch	Yes / No
DC fuse	Yes (positive, 15A)
PV string current monitoring	Yes
Overvoltage protection	DC Type II / AC Type III

General Data

Dimensions (W*H*D)	634*959*267 mm
Weight	60 kg
Isolation method	Transformerless
Degree of protection	IP65
Night power consumption	< 1 W
Operating ambient temperature range	-25 to 60 °C (> 50 °C derating)
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display / Communication	Graphic LCD / RS485
DC connection type	MC4 (Max. 6mm ²)
AC connection type	Screw clamp terminal (Max. 95 mm ²)
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE0126-1-1, G59/3, VDE-AR-N-4105, VDE-AR-N-4120, BDEW, IEC 61000-3-11/-12, EN 50438, UTE C 15-712-1/07.13, CEA, PEA, MEA
Grid support	LVRT, HVRT, active & reactive power control and power ramp rate control
Type designation	SG60KTL-182



SG33CX/SG40CX/SG50CX New

Multi-MPPT String Inverter for 1000 Vdc System



High Yield

- Up to 5 MPPTs with max. efficiency 98.7%
- Compatible with bifacial module
- Built-in PID recovery function optional



Smart O&M

- Touch free commissioning and remote firmware upgrade
- Online IV curve scan and diagnosis
- Fuse free design with smart string current monitoring



Low Cost

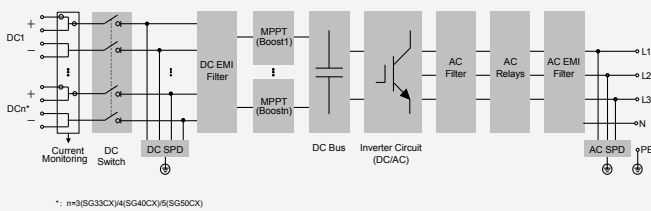
- Compatible with Al and Cu AC cables
- DC 2 in 1 connection enabled
- Cable free communication with optional Wi-Fi



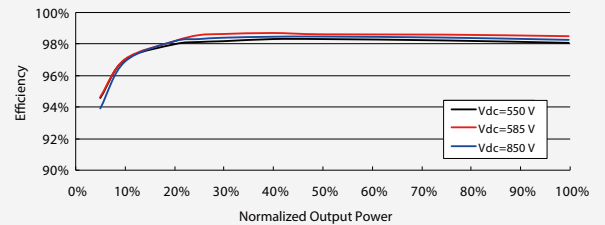
Proven Safety

- IP66 and C5 protection
- Type II SPD for both DC and AC
- Compliant with global safety and grid code

Circuit Diagram



Efficiency Curve



Input (DC)	SG33CX	SG40CX	SG50CX
Max. PV input voltage	1100 V		
Min. PV input voltage / Start-up input voltage	200 V / 250 V		
Nominal PV input voltage	585 V		
MPP voltage range	200 – 1000 V		
MPP voltage range for nominal power	550 – 850V		
No. of independent MPP inputs	3	4	5
Max. number of PV strings per MPPT	2		
Max. PV input current	78 A	104 A	130 A
Max. current for input connector	30 A		
Max. DC short-circuit current	120 A	160 A	200 A
Output (AC)			
AC output power	36.3 kVA @ 40 °C / 33 kVA @ 45 °C	44 kVA @ 40 °C / 40 kVA @ 45 °C	55 kVA @ 40 °C / 50 kVA @ 45 °C
Max. AC output current	55.2 A	66.9 A	83.6 A
Nominal AC voltage	3 / N / PE, 230 / 400 V		
AC voltage range	312 – 528 V		
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz		
THD	< 3 % (at nominal power)		
DC current injection	< 0.5 % In		
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging		
Feed-in phases / connection phases	3 / 3		
Efficiency			
Max. efficiency / European efficiency	98.6 % / 98.3 %	98.6% / 98.3%	98.7% / 98.4%
Protection			
DC reverse connection protection	Yes		
AC short circuit protection	Yes		
Leakage current protection	Yes		
Grid monitoring	Yes		
DC switch / AC switch	Yes / No		
PV String current monitoring	Yes		
Q at night	Yes		
PID recovery function	optional		
Overvoltage protection	DC Type II / AC Type II		
General Data			
Dimensions (W*H*D)	702*595*310mm	782*645*310mm	782*645*310mm
Weight	50 kg	58 kg	62 kg
Isolation method	Transformerless		
Degree of protection	IP66		
Night power consumption	≤2 W		
Operating ambient temperature range	-30 to 60 °C (> 45 °C derating)		
Allowable relative humidity range (non-condensing)	0 – 100 %		
Cooling method	Smart forced air cooling		
Max. operating altitude	4000 m (> 3000 m derating)		
Display	LED, Bluetooth+APP		
Communication	RS485 / Optional: Wi-Fi, Ethernet		
DC connection type	MC4 (Max. 6 mm ²)		
AC connection type	OT or DT terminal (Max.70 mm ²)		
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4105:2018, VDE-AR-N 4110:2018, IEC 61000-6-3, EN 50438, AS/NZS 4777.2:2015, CEI 0-21, VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1:2013, DEWA		
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control		



SG50KTL-M-20

Multi-MPPT String Inverter for 1000 Vdc System



High Yield

- Max. efficiency 98.9%
- Max. DC/AC ratio up to 1.3
- Long-term overload at 1.1Pn
- Up to 4 MPP Trackers



Easy O&M

- String current monitoring function for fast trouble shooting



Saved Investment

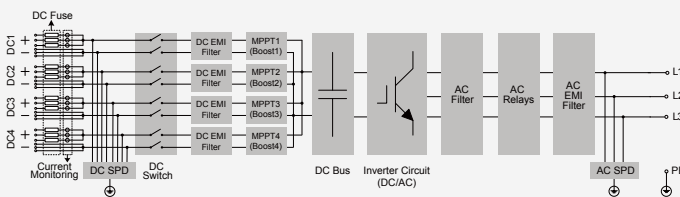
- Less construction and installation costs in 2MW block
- Integrated DC combiner box with DC switch, DC fuses and DC/AC Type II SPD



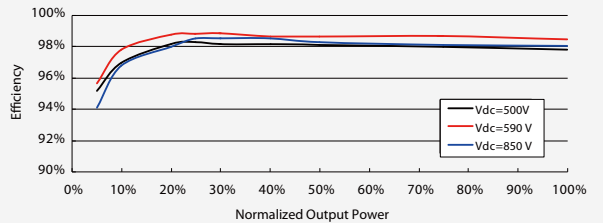
Grid Support

- Grid support including LVRT, HVRT and FRT
- Comply with CE, G59/3 and VDE 4105

Circuit Diagram



Efficiency Curve



Input (DC)**SG50KTL-M-20**

Max. PV input voltage	1000 V
Min. PV input voltage / Startup input voltage	300 V / 300 V
Nominal input voltage	590 V
MPP voltage range	300 - 950 V
MPP voltage range for nominal power	500 - 850 V
No. of independent MPP inputs	4
Max. number of PV strings per MPPT	3
Max. PV input current	112 A (28 A / 28 A / 28 A / 28 A)
Max. current for input connector	12 A
Max. DC short-circuit current	140 A (35 A / 35 A / 35 A / 35 A)

Output (AC)

AC output power	55000 VA @ 45 °C / 50000 kVA @ 50 °C
Max. AC output current	80A
Nominal AC voltage	3 / N / PE or 3 / PE , 230 / 400 V
AC voltage range	310 - 480 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 - 55 Hz, 60 Hz / 55 - 65 Hz
THD	< 3% (at nominal power)
DC current injection	< 0.5%In
Power factor at nominal power / Adjustable power factor	> 0.99 @ default value at nominal power, (adj. 0.8 leading - 0.8 lagging)
Feed-in phases / Connection phases	3 / 3

Efficiency

Max. efficiency / Euro. efficiency	98.9 % / 98.5 %
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Protection

DC reverse connection protection	Yes
AC short-circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
DC switch / AC switch	Yes / No
DC fuse	Yes (positive, 15 A)
PV string current monitoring	Yes
Anti-PID function	Optional
Overvoltage protection	DC Type II / AC Type II

General Data

Dimensions (W*H*D)	665*958*257 mm
Weight	70 kg
Isolation method	Transformerless
Degree of protection	IP65
Night power consumption	<1W
Operating ambient temperature range	-25 to 60 °C (>50 °C derating)
Allowable relative humidity range (non-condensing)	0 - 100%
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display / Communication	Graphic LCD / RS485
DC connection type	MC4
AC connection type	Screw clamp terminal (Max. 50 mm ²)
Compliance	CEA, IEC 62109, IEC 61727, IEC 62116, IEC 61683, IEC 60068, CE, VDE AR-N-4105 and G59/3
Grid support	LVRT, HVRT, active & reactive power control and power ramp rate control
Type designation	SG50KTL-M-20



SG33KTL-M/SG36KTL-M

Multi-MPPT String Inverter for 1000 Vdc System



High Yield

- Max. efficiency 98.5 %, European efficiency 98.3 %
- Long-time overload at 1.1 Pn (SG33KTL-M)
- Full power operation without derating at 50 °C
- Up to 3 MPP trackers



Easy O&M

- Integrated string current monitoring function for fast trouble shooting
- Compact design and light weight for easy installation
- Plug-in design of fan and SPD, easy for on-site maintenance



Saved Investment

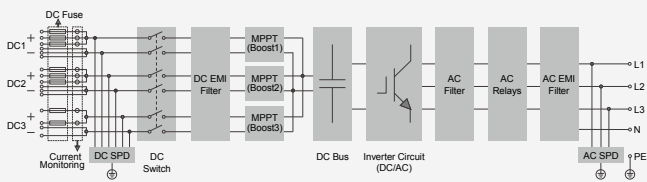
- Max. DC/AC ratio up to 1.4
- Can be installed horizontally, saving installation cost
- Integrated DC combiner box and DC/AC overvoltage protection



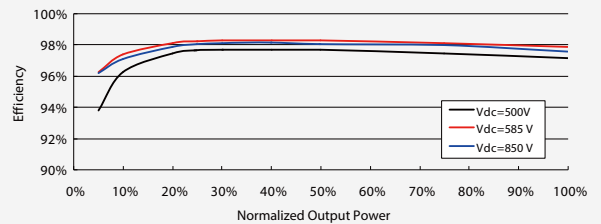
Grid Support

- Compliance with standards: CE, IEC 62109, IEC 61727, IEC 62116, VDE 0126-1-1, VDE-AR-N-4105
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

Circuit Diagram



Efficiency Curve



Input (DC)	SG33KTL-M	SG36KTL-M
Max. PV input voltage	1100 V	
Min. PV input voltage / Startup input voltage	200 V / 250 V	
Nominal input voltage	585 V	
MPP voltage range	200 – 1000 V	
MPP voltage range for nominal power	500 – 850 V	
No. of independent MPP inputs	3	
Max. number of PV strings per MPPT	3 / 3 / 2	
Max. PV input current	88 A (33 A / 33 A / 22 A)	
Max. current for input connector	12 A	
Max. DC short-circuit current	96 A (36 A / 36 A / 24 A)	
Output (AC)		
AC output power	36000 VA @ 45 °C / 33000 VA @ 50 °C	36000 VA @ 50 °C
Max. AC output current	53.5 A	
Nominal AC voltage	3 / PE or 3 / N / PE, 230 / 400 V	
AC voltage range	310 – 480 V	
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz	
THD	< 3 % (at nominal power)	
DC current injection	< 0.5 % In	
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	3 / 3	
Efficiency		
Max. efficiency / Euro. efficiency	98.5 % / 98.3 %	
Protection		
DC reverse connection protection	Yes	
AC short-circuit protection	Yes	
Leakage current protection	Yes	
Grid monitoring	Yes	
DC switch / AC switch	Yes / No	
DC fuse	Yes (positive, 15A)	
PV string current monitoring	Yes	
Overvoltage protection	DC Type II / AC Type II	
General Data		
Dimensions (W*H*D)	525*740*240 mm	
Weight	48 kg	
Isolation method	Transformerless	
Degree of protection	IP65	
Night power consumption	< 2 W	
Operating ambient temperature range	-25 to 60 °C (> 50 °C derating)	
Allowable relative humidity range (non-condensing)	0 – 100 %	
Cooling method	Smart forced air cooling	
Max. operating altitude	4000 m (> 3000 m derating)	
Display / Communication	Graphic LCD / RS485	
DC connection type	MC4 (Max. 6 mm ²)	
AC connection type	Screw clamp terminal (Max. 50 mm ²)	
Compliance	IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, CE, IEC 61000-3-11/-12, VDE 0126-1-1, VDE-AR-N-4105, CEA	
Grid support	LVRT, HVRT, active & reactive power control and power ramp rate control	
Type designation	SG33KTL-M	SG36KTL-M



SG60KU-M

String Inverter For North America



High Yield

- Max. efficiency 98.9 %, CEC efficiency 98.5 %
- Long-time overload at 1.1 P_n
- Up to 4 MPP trackers



Easy O&M

- Integrated string current monitoring function for fast trouble shooting
- NEMA 4X protection
- Plug-in design of fan and SPD, easy for on-site maintenance



Saved Investment

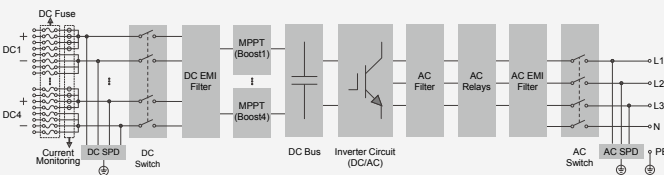
- Max. DC/AC ratio up to 1.5
- Integrated DC combiner box, DC/AC switch and DC/AC overvoltage protection



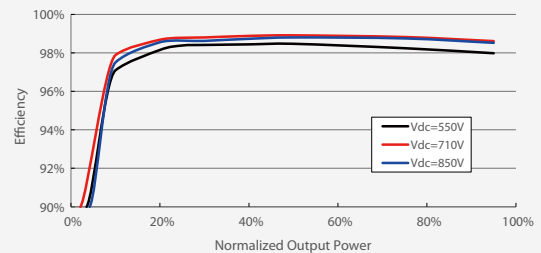
Grid Support

- Complies with standards: UL1741, UL 1741 SA, CA Rule 21, IEEE 1547, IEEE 1547.1, CSA C22.2, No.107.1-01
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

Circuit Diagram



Efficiency Curve



Input (DC)**SG60KU-M**

Max. PV input voltage	1000 V
Min. PV input voltage / Startup input voltage	300 V / 300 V
Nominal input voltage	710 V
MPP voltage range	300 – 950 V
MPP voltage range for nominal power	550 – 850 V
No. of independent MPP inputs	4
Max. number of PV strings per MPPT	4
Max. DC short-circuit current	200 A (50 A / 50 A / 50 A / 50 A)

Output (AC)

AC output power	66000 VA @ 40 °C (104°F) / 60000 VA @ 45 °C (113 °F)
Max. AC output current	80 A
Nominal AC voltage	3 / N / PE or 3 / PE, 277 / 480 V
AC voltage range	422 – 528 V
Nominal grid frequency / Grid frequency range	60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % I _n
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Max. efficiency / CEC. efficiency	98.9 % / 98.5 %
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Protection

DC reverse connection protection	Yes
AC short-circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
DC switch / AC switch	Yes / Yes
DC fuse	Yes (positive and negative)
PV string current monitoring	Yes
Arc fault circuit interrupter (AFCI)	Yes
Overvoltage protection	DC Type II / AC Type II

General Data

Dimensions (W*H*D)	665*915*276 mm (26.2**36.0**10.9")
Weight	70 kg (154.3 lbs)
Isolation method	Transformerless
Degree of protection	NEMA 4X
Night power consumption	< 1 W
Operating ambient temperature range	-25 to 60 °C (> 45 °C derating) (-13 to 140 °F (> 113 °F derating))
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating) (13123 ft (> 9843 ft derating))
Display / Communication	Graphic LCD / RS485, Ethernet
Third-Party communication protocol	SunSpec Modbus
DC connection type	Screw clamp terminal (10 AWG, Cu or Al)
AC connection type	Screw clamp terminal (3/0 AWG, Cu or Al)
Compliance	UL1741, UL 1741 SA, CA Rule 21, IEEE 1547, IEEE 1547.1, CSA C22.2 No.107.1-01, UL 1699B and FCC Part 15
Grid support	L/HVRT, L/HVRT, active & reactive power control and power ramp rate control, Volt-var, Frequency-watt
Type designation	SG60KU-M



SG49K5J

Multi-MPPT String Inverter for Japan 1000 Vdc System



High Yield

- Max. efficiency 98.9 % European efficiency 98.5 %
- Full power operation without derating at 50 °C
- Up to 4 MPP trackers



Easy O&M

- Integrated IV curve scan function for fast trouble shooting
- Plug-in design of fan and SPD, easy for on-site maintenance.



Saved Investment

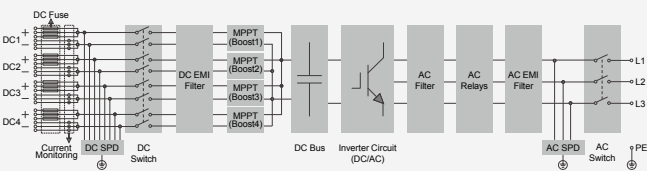
- Max. DC/AC ratio up to 1.5
- Capacity less than 50 kW plant only need one inverter
- Can be installed horizontally, saving installation cost



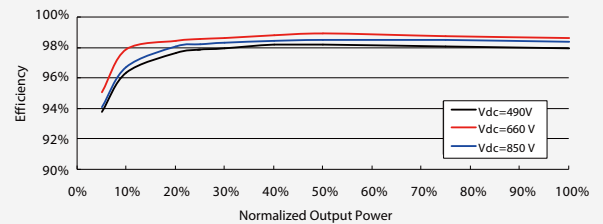
Grid Support

- Compliance with Japan utility grid standards
- Fault ride through (FRT) 2017
- Remote active power control

Circuit Diagram



Efficiency Curve



Input (DC)**SG49K5J**

Max. PV input voltage	1000 V
Min. PV input voltage / Startup input voltage	200 V / 250 V
Nominal input voltage	660 V
MPP voltage range	200 – 950 V
MPP voltage range for nominal power	490 – 850 V
No. of independent MPP inputs	4
Max. number of PV strings per MPPT	3
Max. PV input current	112A (28 A / 28 A / 28 A / 28 A)
Max. current for input connector	12 A
Max. DC short-circuit current	140 A (35 A / 35 A / 35 A / 35 A)

Output (AC)

AC output power	49500 VA @ 50 °C / 55000 VA @ 50 °C (settable)
Max. AC output current	80 A
Nominal AC voltage	3 / PE, 420 V / 440 V
AC voltage range	374 – 506 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % I _n
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Max. efficiency / Euro. efficiency	98.9 % / 98.5 %
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Protection

DC reverse connection protection	Yes
AC short-circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
DC switch / AC switch	Yes / Yes
DC fuse	Yes (positive, 15A)
PV string current monitoring	Yes
Overvoltage protection	DC Type II / AC Type II

General Data

Dimensions (W*H*D)	677*962*282.5 mm
Weight	70 kg
Isolation method	Transformerless
Degree of protection	IP65
Night power consumption	< 2 W
Operating ambient temperature range	-25 to 60 °C (> 50 °C derating)
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display / Communication	Graphic LCD / RS485
DC connection type	OT terminal (Max. 6 mm ²)
AC connection type	OT terminal (Max. 70 mm ²)
Grid support	FRT 2017, active & reactive power control and power ramp rate control
Type designation	SG49K5J



SG33K3J

Multi-MPPT String Inverter for Japan 1000 Vdc System



High Yield

- Max. efficiency 98.5 %, European efficiency 98.3 %
- Full power operation without derating at 50 °C
- Up to 3 MPPT trackers



Easy O&M

- Integrated IV curve scan function for fast trouble shooting
- Compact design and light weight for easy installation
- Plug-in design of fan and SPD, easy for on-site maintenance



Saved Investment

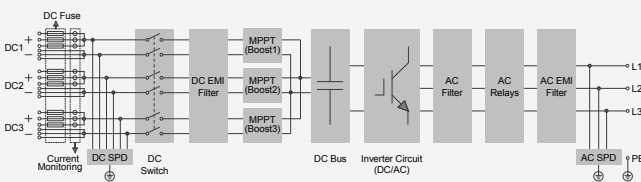
- Max. DC/AC ratio up to 1.8
- Can be installed horizontally, saving installation cost



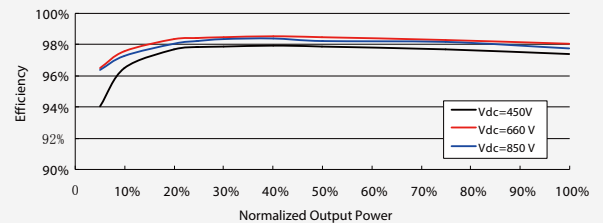
Grid Support

- Compliance with Japan utility grid standards
- Fault ride through (FRT) 2017
- Remote active power control

Circuit Diagram



Efficiency Curve



Input (DC)**SG33K3J**

Max. PV input voltage	1100 V
Min. PV input voltage / Startup input voltage	200 V / 250 V
Nominal input voltage	660 V
MPP voltage range	200 – 1000 V
MPP voltage range for nominal power	450 – 850 V
No. of independent MPP inputs	3
Max. number of PV strings per MPPT	3
Max. PV input current	99 A (33 A / 33 A / 33 A)
Max. current for input connector	12 A
Max. DC short-circuit current	108 A (36 A / 36 A / 36 A)

Output (AC)

AC output power	33300 VA @ 50 °C / 38900 VA @ 50 °C (settable)
Max. AC output current	53.5 A
Nominal AC voltage	3 / PE, 420 V / 440 V
AC voltage range	365 – 528 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
THD	< 3 % (at nominal power)
DC current injection	< 0.5 % I _n
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / Connection phases	3 / 3

Efficiency

Max. efficiency / Euro. efficiency	98.5 % / 98.3 %
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Protection

DC reverse connection protection	Yes
AC short-circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
DC switch / AC switch	Yes / No
DC fuse	Yes (positive, 15A)
PV string current monitoring	Yes
Overvoltage protection	DC Type II / AC Type II

General Data

Dimensions (W*H*D)	525*740*240 mm
Weight	48 kg
Isolation method	Transformerless
Degree of protection	IP65
Night power consumption	< 2 W
Operating ambient temperature range	-25 to 60 °C (> 50 °C derating)
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	4000 m (> 3000 m derating)
Display / Communication	Graphic LCD / RS485
DC connection type	MC4 (Max. 6 mm ²)
AC connection type	OT terminal (Max. 50 mm ²)
Grid support	FRT 2017, active & reactive power control and power ramp rate control
Type designation	SG33K3J



SG15KTL-M/SG20KTL-M

Multi-MPPT String Inverter for 1000 Vdc System



High Yield

- Max. efficiency 98.6 %, European efficiency 98.3 %
- 1.1 overload capacity, 10% more yield under high irradiance
- Adapt to complex power grid, extend the grid-connected generation time
- Patented PID recovery function optional



Easy O&M

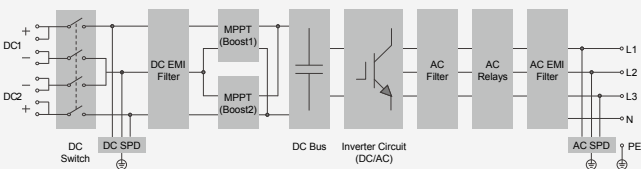
- 24kg, easy O&M
- Plug and play design, easy installation
- String current monitoring function for fast trouble shooting
- Fast commissioning, easy local and on-line monitoring



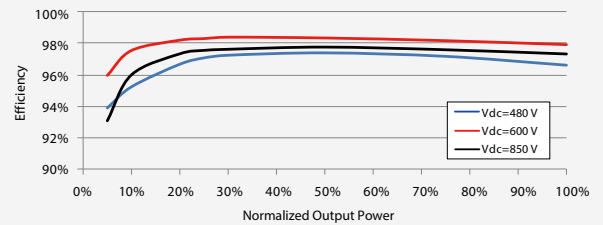
Safe and Reliable

- High power quality, no interference for electrical equipment
- Low radiation, compliance with household equipment standards
- High anti-corrosion with aluminum alloy die casting
- Built-in surge arresters and residual current protection

Circuit Diagram



Efficiency Curve



Input (DC)	SG15KTL-M	SG20KTL-M
Max. PV input voltage	1100 V	
Min. PV input voltage / Start-up input voltage	200 V / 250 V	
Nominal PV input voltage	600 V	
MPP voltage range	200 V – 1000 V	
MPP voltage range for nominal power	380 V – 850 V	480 V – 850 V
No. of independent MPP inputs	2	
Max. number of PV strings per MPPT	2	
Max. PV input current	44 A (22 A / 22 A)	
Max. current for input connector	15 A	
Max. DC short-circuit current	60 A (30 A / 30 A)	
Output (AC)		
AC output power	16500 VA @ 35 °C / 15000 kVA @ 45 °C	22000 VA @ 35 °C / 20000 kVA @ 45 °C
Max. AC output current	24.0 A	31.9 A
Nominal AC voltage	3 / N / PE, 230 / 400 V	
AC voltage range	270 V – 480 V	
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz	
THD	< 3 % (at nominal power)	
DC current injection	< 0.5 % In	
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	3 / 3	
Efficiency		
Max. efficiency / Euro. efficiency	98.6 % / 98.3 %	
Protection		
DC reverse connection protection	Yes	
AC short-circuit protection	Yes	
Leakage current protection	Yes	
Grid monitoring	Yes	
DC switch / AC switch	Yes* / No	
PV string current monitoring	Yes	
PID recovery function	Optional	
Overvoltage protection	DC Type II / AC Type II	
General Data		
Dimensions (W*H*D)	370*485*210 mm	
Weight	24 kg	
Isolation method	Transformerless	
Degree of protection	IP65	
Night power consumption	< 1 W	
Operating ambient temperature range	-25 to 60 °C (> 45 °C derating)	
Allowable relative humidity range (non-condensing)	0 – 100 %	
Cooling method	Smart forced air cooling	
Max. operating altitude	4000 m (> 3000 m derating)	
Display / Communication	LED, Bluetooth + APP / RS485 (Optional: WiFi / Ethernet)	
DC connection type	MC4 (Max. 6 mm ²)	
AC connection type	Plug and play connector (Max. 16 mm ²)	
Compliance	EN 62109-1, EN 62109-2, EN 61000-3-11, EN 61000-3-12, IEC 61727, IEC 62116, VDE0126-1-1/4105, AS 4777.2, IEC 60068, IEC 61683, EN 50530, CEI 0-21,NB/T32004-2013, UNE 206007-1, G59/3, UTE C15-712-1	
Grid support	Active & reactive power control and power ramp rate control	
Type designation	SG15KTL-M	SG20KTL-M

*:Devices for Australia are not equipped with DC switches



SG10KTL-M/SG12KTL-M

Multi-MPPT String Inverter for 1000 Vdc System



High Yield

- Max. efficiency 98.6 %, European efficiency 98.1 %
- 1.1 overload capacity, 10% more yield under high irradiance
- Adapt to complex power grid, extend the grid-connected generation time
- Patented PID recovery function optional



Easy O&M

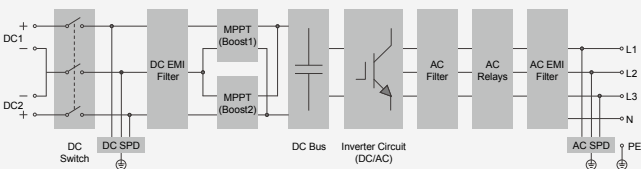
- 20kg, easy O&M
- Plug and play design, easy installation
- String current monitoring function for fast trouble shooting
- Fast commissioning, easy local and on-line monitoring



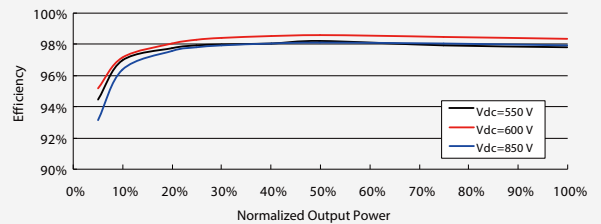
Safe and Reliable

- High power quality, no interference for electrical equipment
- Low radiation, compliance with household equipment standards
- High anti-corrosion with aluminum alloy die casting
- Built-in surge arresters and residual current protection

Circuit Diagram



Efficiency Curve



Input (DC)	SG10KTL-M	SG12KTL-M
Max. PV input voltage	1100 V	
Min. PV input voltage / Startup input voltage	200 V / 250 V	
Nominal input voltage	600 V	
MPP voltage range	200 V – 1000 V	
MPP voltage range for nominal power	470 V – 850 V	550 V – 850 V
No. of independent MPP inputs	2	
Max. number of PV strings per MPPT	1	
Max. PV input current	22A (11 A / 11 A)	
Max. current for input connector	15 A	
Max. DC short-circuit current	30 A (15 A / 15 A)	
Output (AC)		
AC output power	11000 VA @ 35 °C / 10000 VA @ 45 °C	13200 VA @ 35 °C / 12000 VA @ 45 °C
Max. AC output current	16.5 A	20 A
Nominal AC voltage	3 / N / PE, 230 / 400 V	
AC voltage range	270 V – 480 V	
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz	
THD	< 3 % (at nominal power)	
DC current injection	< 0.5 % In	
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	3 / 3	
Efficiency		
Max. efficiency / Euro. efficiency	98.6 % / 98.1 %	
Protection		
DC reverse connection protection	Yes	
AC short-circuit protection	Yes	
Leakage current protection	Yes	
Grid monitoring	Yes	
DC switch / AC switch	Yes / No	
PV string current monitoring	Yes	
PID recovery function	Optional	
Overvoltage protection	DC Type II / AC Type II	
General Data		
Dimensions (W*H*D)	370*485*160 mm	
Weight	20 kg	
Isolation method	Transformerless	
Degree of protection	IP65	
Night power consumption	< 1 W	
Operating ambient temperature range	-25 to 60 °C (> 45 °C derating)	
Allowable relative humidity range (non-condensing)	0 – 100 %	
Cooling method	Natural cooling	
Max. operating altitude	4000 m (> 3000 m derating)	
Display / Communication	LED, Bluetooth + APP / RS485 (optional: WiFi, Ethernet)	
DC connection type	MC4 (Max. 6 mm ²)	
AC connection type	Plug and play connector (Max. 6 mm ²)	
Compliance	EN 62109-1, EN 62109-2, EN 61000-3-11, EN 61000-3-12, UTE C15-712-1, IEC 61727, IEC 62116, VDE0126-1-1/4105, G59/3, AS 4777.2, IEC 60068, IEC 61683, EN 50530, CEI 0-21, UNE 206007-1	
Grid support	Active & reactive power control and power ramp rate control	
Type designation	SG10KTL-M	SG12KTL-M



SG5KTL-MT/SG6KTL-MT/SG8KTL-M

Multi-MPPT String Inverter for 1000 Vdc System



High Yield

- Max. efficiency 98.6%, European efficiency 98.0%
- 1.1 overload capacity, 10% more yield under high irradiance
- Adapt to complex power grid, extend the grid-connected generation time



Easy O&M

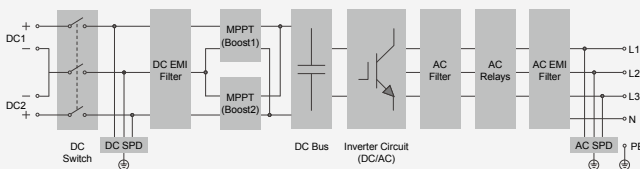
- 20kg, easy O&M
- Plug and play design, easy installation
- String current monitoring function for fast trouble shooting
- Fast commissioning, easy local and on-line monitoring



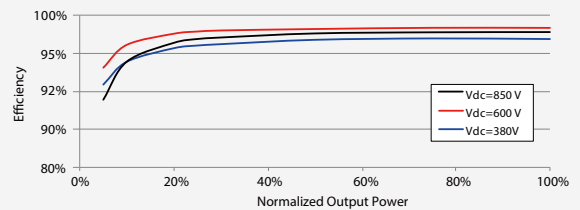
Safe and Reliable

- High power quality, no interference for electrical equipment
- Low radiation, compliance with household equipment standards
- High anti-corrosion with aluminum alloy die casting
- Built-in surge arresters and residual current protection

Circuit Diagram



Efficiency Curve



Input (DC)	SG5KTL-MT	SG6KTL-MT	SG8KTL-M
Max. PV input voltage	1100 V		
Min. PV input voltage / Start-up input voltage	200 V / 250 V		
Nominal PV input voltage	600 V		
MPP voltage range	200 – 1000 V		
MPP voltage range for nominal power	240 – 850 V	290 – 850 V	380 – 850 V
No. of independent MPP inputs	2		
Max. number of PV strings per MPPT	1		
Max. PV input current	22A (11A / 11A)		
Max. current for input connector	15 A		
Max. DC short-circuit current	30 A (15A / 15A)		
Output (AC)			
AC output power	5.5 kVA @ 35 °C / 5.0 kVA @ 45 °C	6.6 kVA @ 35 °C / 6.0 kVA @ 45 °C	8.8 kVA @ 35 °C / 8.0 kVA @ 45 °C
Max. AC output current	8.5 A	10.0 A	13.3 A
Nominal AC voltage	3 / N / PE, 230 / 400 V		
AC voltage range	270 – 480 V		
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz		
THD	< 3 % (at nominal power)		
DC current injection	< 0.5 % I _n		
Power factor at nominal power / Adjustable power factor	>0.99 / 0.8 leading – 0.8 lagging		
Feed-in phases / connection phases	3 / 3		
Efficiency			
Max. efficiency / European efficiency	98.2% / 97.6%	98.4% / 97.7%	98.6% / 98.0%
Protection			
DC reverse connection protection	Yes		
AC short-circuit protection	Yes		
Leakage current protection	Yes		
Grid monitoring	Yes		
DC switch / AC switch	Yes* / No		
PV string current monitoring	Yes		
Overvoltage protection	DC Type II / AC Type II		
General Data			
Dimensions (W*H*D)	370*485*160 mm		
Weight	20 kg		
Isolation method	Transformerless		
Degree of protection	IP65		
Night power consumption	< 1 W		
Operating ambient temperature range	-25 to 60 °C (> 45 °C derating)		
Allowable relative humidity range (non-condensing)	0 – 100 %		
Cooling method	Natural cooling		
Max. operating altitude	4000 m (> 3000 m derating)		
Display / Communication	LED, Bluetooth + APP / RS485, (WiFi, E-Net optional)		
DC connection type	MC4 (Max. 6 mm ²)		
AC connection type	Plug and play connector (Max. 6 mm ²)		
Compliance	EN62109-1, EN62109-2, IEC 61727, IEC 62116, VDE 0126-1-1/4105, AS 4777.2, EN 50438:2013, C10/11, G59/3	EN62109-1, EN62109-2, IEC 61727, IEC 62116, VDE 0126-1-1/4105, EN 50438:2013, C10/11, G59/3	EN62109-1, EN62109-2, IEC 61727, IEC 62116, VDE 0126-1-1/4105, UTE C15-712-1, VFR-2014, CEI 0-21, EN 50438:2013, C10/11, G59/3
Grid Support	Active & reactive power control and power ramp rate control		
Type designation	SG5KTL-MT	SG6KTL-MT	SG8KTL-M

*:Devices for Australia are not equipped with DC switches



SG2K-S/SG2K5-S/SG3K-S

Residential String Inverter



High Yield

- Industry leading efficiency of 98.2%
- Flexible PV string configurations with DC/AC ratio up to 1.3



Smart Management

- Feature-rich online monitoring via App or Web
- Over-the-air firmware updates
- Gain energy flow transparency with Sungrow smart meter
- Accurate dynamic feed-in control



Safe and Durable

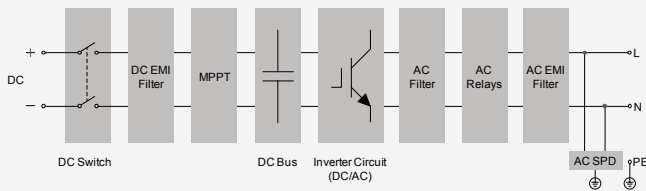
- Built-in surge arresters and residual current protection
- High anti-corrosion rating at C5



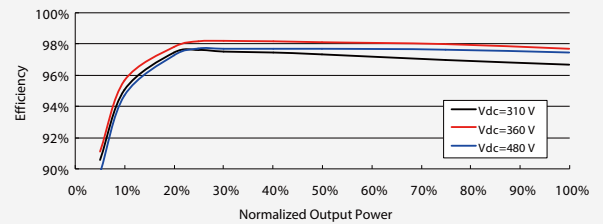
Easy and User Friendly

- 8.5 kg compact design
- Unique push-in connectors for time-saving installation
- Mounting plate with built-in level
- Fast and easy commissioning via App or LCD

Circuit Diagram



Efficiency Curve



Input (DC)	SG2K-S	SG2K5-S	SG3K-S
Max. PV input voltage	600 V		
Min. PV input voltage / Startup voltage	90 / 120V		
Nominal input voltage	360 V		
MPP voltage range	90 V – 560 V		
MPP voltage range for nominal power	210 V – 480 V	260 V – 480 V	310 V – 480 V
No. of MPPTs	1		
Max. number of PV strings per MPPT	1		
Max. PV input current	10 A		
Max. current for input connector	12 A		
Max. PV short-circuit current	12 A		
Output (AC)			
Nominal AC output power	2000 W	2500 W	3000 W
Max. apparent AC output power	2000 VA	2500 VA	3000 VA
Max. AC output current	9.1 A	11.3 A	13.7 A
Nominal AC voltage	230 Vac		
AC voltage range	180 Vac – 276 Vac		
Nominal grid frequency	50 Hz / 60 Hz		
Grid frequency range	45 Hz – 55 Hz / 55 Hz – 65 Hz		
Total Harmonic Distortion (THD)	< 3 % (of nominal power)		
DC current injection	< 0.5 % (of nominal current)		
Power factor	> 0.99 / 0.8 leading – 0.8 lagging		
Feed-in phases / Connection phases	1 / 1		
Efficiency			
Max. efficiency	98.2 %		
Max. European efficiency	97.2 %	97.5 %	97.7 %
Protection			
PV reverse connection protection	Yes		
AC short circuit protection	Yes		
Leakage current protection	Yes		
Grid monitoring	Yes		
PV string current monitoring	Yes		
DC switch	Yes		
Overvoltage protection	AC Type II		
General Data			
Dimensions (W*H*D)	300*370*125 mm		
Weight	8.5 kg		
Isolation method	Transformerless		
Ingress protection rating	IP65		
Night power consumption	< 6 W		
Operating ambient temperature range	-25 °C to 60 °C (>45 °C derating)		
Allowable relative humidity (non-condensing)	0 – 100 %		
Cooling method	Natural cooling		
Max. operating altitude	4000 m (> 2000 m derating)		
Display	LCD		
Communication	Wifi / Ethernet (optional)		
DC connection type	MC4 (Max. 6 mm ²)		
AC connection type	Plug and play connector (Max. 6 mm ²)		
Compliance	IEC62109-1, IEC62109-2, IEC62116, IEC61727, EN 61000-6-2, EN 61000-6-3, VDE-AR-N-4105, CEI 0-21, VDE0126-1-1, UTE C15-712, VFR-2014, EN50438, C10/11, G83/2, G59/3		
Compliance	Active & reactive power control, power ramp rate control		
Type designation	SG2K-S	SG2K5-S	SG3K-S



SG3K-D/SG3K6-D/SG4K-D/SG4K6-D/ SG5K-D/SG6K-D

Residential String Inverter



High Yield

- Industry leading efficiency of 98.4%
- Flexible PV string configurations with DC/AC ratio up to 1.3



Smart Management

- Feature-rich online monitoring via App or Web
- Over-the-air firmware updates
- Gain energy flow transparency with Sungrow smart meter
- Accurate dynamic feed-in control



Safe and Durable

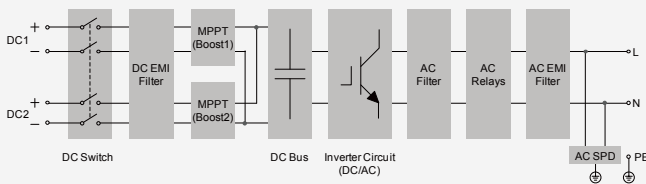
- Built-in surge arresters and residual current protection
- High anti-corrosion rating at C5



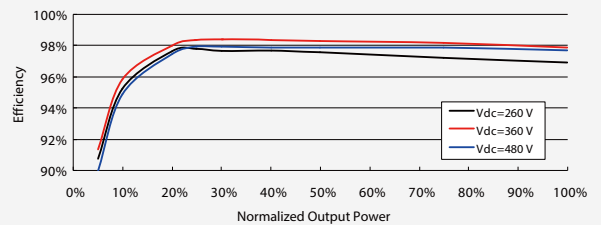
Easy and User Friendly

- 11.5 kg compact design
- Unique push-in connectors for time-saving installation
- Mounting plate with built-in level
- Fast and easy commissioning via App or LCD

Circuit Diagram



Efficiency Curve



Input (DC)	SG3K-D	SG3K6-D	SG4K-D	SG4K6-D	SG5K-D	SG6K-D
Max. PV input voltage	600 V					
Min. PV input voltage / Startup voltage	90 / 120V					
Nominal input voltage	360 V					
MPP voltage range	90 V – 560 V					
MPP voltage range for nominal power	160 V – 480 V	190 V – 480 V	210 V – 480 V	240 V – 480 V	260 V – 480 V	315 V – 480 V
No. of MPPTs	2					
Max. number of PV strings per MPPT	1					
Max. PV input current	20 A (10 A / 10 A)					
Max. current for input connector	12 A (12 A / 12 A)					
Max. PV short-circuit current	24 A (12 A / 12 A)					

Output (AC)

Nominal AC output power	3000 W	3680 W	4000 W	4600 W	5000 W	6000 W
Max. apparent AC output power	3000 VA	3680 VA	4000 VA	4600 VA	5000 VA	6000 VA
Max. AC output current	13.7 A	16 A	18.2 A	21 A	22.7 A	27.3 A
Nominal AC voltage	230 Vac					
AC voltage range	180 – 276 Vac					
Nominal grid frequency	50 Hz / 60 Hz					
Grid frequency range	45 Hz – 55 Hz / 55 Hz – 65 Hz					
Total Harmonic Distortion (THD)	< 3 % (of nominal power)					
DC current injection	< 0.5 % (of nominal current)					
Power factor	> 0.99 / 0.8 leading – 0.8 lagging					
Feed-in phases / Connection phases	1 / 1					

Efficiency

Max. efficiency	98.4 %					
Max. European efficiency	97.7 %	97.7 %	98.0 %	98.0 %	98.0 %	98.0 %

Protection

PV reverse connection protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
PV string current monitoring	Yes
DC switch	Yes
Overvoltage protection	AC Type II

General Data

Dimensions (W*H*D)	360*390*133 mm
Weight	11.5 kg
Isolation method	Transformerless
Ingress protection rating	IP65
Night power consumption	< 6 W
Operating ambient temperature range	-25 °C to 60 °C (>45 °C derating)
Allowable relative humidity (non-condensing)	0 – 100 %
Cooling method	Natural cooling
Max. operating altitude	4000 m (> 2000 m derating)
Display	LCD
Communication	Wifi / Ethernet (optional)
DC connection type	MC4 (Max. 6 mm ²)
AC connection type	Plug and play connector (max. 6 mm ²)
Compliance	IEC62109-1, IEC62109-2, IEC62116, IEC61727, EN 61000-6-2, EN 61000-6-3, VDE-AR-N-4105, CEI 0-21, VDE0126-1-1, UTE C15-712, VFR-2014, EN50438, C10/11, G83/2, G59/3
Compliance	Active & reactive power control, power ramp rate control
Type designation	SG3K-D SG3K6-D SG4K-D SG4K6-D SG5K-D SG6K-D



SH3K6/SH4K6

Hybrid Inverter



Smart and Integrated

- Integrated optimised energy management system, battery usage strategies and smart home load control
- Energy trading ready with external EMS to maximise payback on your investment
- Monitoring via smartphone or laptop, providing email reports and alerts



Flexible Application

- For both new installation and retrofitting solar systems
- Compatible with both lithium-ion and lead-acid batteries



Safe and Durable

- Integrated high-frequency isolated battery charge/discharge circuit
- Protection rating at IP65 (dust-proof and water-proof)



Simple and User Friendly

- Easy commissioning and customisable settings via LCD
- Auto-identification of lithium-ion batteries
- One-click firmware update via Wi-Fi or Ethernet, easy for maintenance and management



PV Input Side Data**SH3K6****SH4K6**

Max. PV input power	6500 W	6500 W
Max. PV input voltage	600 V	600 V
Startup voltage	125 V	125 V
Nominal input voltage	360 V	360 V
MPP voltage range	125 V – 560 V	125 V – 560 V
MPP voltage range for nominal power	180 V – 520 V	220 V – 520 V
No. of MPPTs	2	2
Max. number of PV strings per MPPT	1 / 1	1 / 1
Max. PV input current	22 A (11 A / 11 A)	22 A (11 A / 11 A)
Max. current for input connector	12 A	12 A
Short-circuit current of PV input	24 A (12 A / 12 A)	24 A (12 A / 12 A)

AC Input and Output Data

Max. AC input power from grid	3000 W	3000 W
Nominal AC output power to grid	3680 W	4600 W
Max. AC output apparent power to grid	3680 VA	4600 VA
Nominal AC output current	16 A	20 A
Max. AC output current	16 A	20 A
Nominal AC voltage	230 Vac	
AC voltage range	180 Vac – 276 Vac (this may vary with grid standards)	
Nominal grid frequency	50 Hz	
Grid frequency range	45 Hz – 55 Hz (this may vary with grid standards)	
Total Harmonic Distortion (THD)	< 3 % (of nominal power)	
DC current injection	< 0.5 % (of nominal current)	
Power factor	> 0.99 at default value at nominal power (adj. 0.8 overexcited/ leading–0.8 underexcited/lagging)	

Protection

Anti-islanding protection	Yes
AC short circuit protection	Yes
Leakage current protection	Yes
DC switch (solar)	Yes
DC fuse (solar)	No
DC fuse (battery)	Yes
Overvoltage Category	III [MAINS], II [PV] [BATTERY]

System Data

Max. efficiency	> 97.7 %	> 97.7 %
Max. European efficiency	> 97.0 %	> 97.2 %
Max. charge / discharge efficiency	> 94.0 %	> 94.0 %
Isolation method (solar)	Transformerless	
Isolation method (battery)	HF	
Ingress protection rating	IP65	
Night power consumption	< 1 W	
Operating ambient temperature range	-25 °C to 60 °C (> 45 °C derating)	
Allowable relative humidity range	0 %–100 %	
Cooling method	Natural convection	
Max. operating altitude	2000 m	
Display	Graphic LCD	
Communication	2 × RS485, Wi-Fi (optional), CAN, Ethernet	
Analogue inputs	PT1000	
Power management	1 × Digital Output	
Earth alarm	1 × Digital Output, email, buzzer inside	
PV connection type	MC4	
AC connection type	Clamping yoke connector	
Certification	VDE-AR-N-4105, DIN VDE0126-1-1, G83/2, G59/3, CEI 0-21, IEC 62109-1, IEC 62109-2, EN61000-6-1/-3, EN 62477-1	

Battery Data

Battery type	Li-ion battery / Lead-acid battery
Battery voltage	48 V (32 V – 70 V)
Max. charge/discharge current	65 A / 65 A

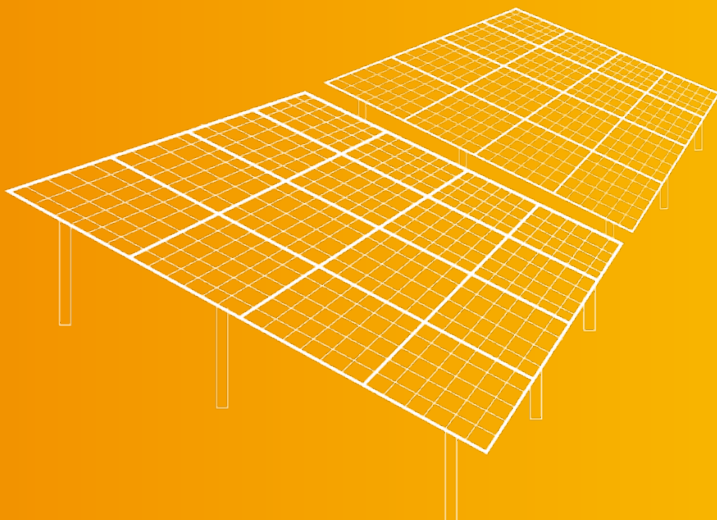
Mechanical Data

Dimensions (W × H × D)	457mm × 515mm × 170mm
Mounting method	Wall-mounting bracket
Weight	22 kg





Accessory & Monitoring



Sunbox

iSolarCloud

Smart Communication Box

Logger3000

E-Net

WiFi

SUNBOX PVS-8MH-DB/PVS-12MH-DB/PVS-16MH-DB

PV combiner box for 1500 Vdc system



Efficient and Safe

- 1500V-Specific PV fuse, both positive and negative terminal
- 1500V-Specific PV SPD with fault alarm
- Specialized 2 in 1 fuse with favorable heat dissipation performance and compact size
- String current and voltage monitoring
- Main load switch state monitoring (optional)



Flexible

- IP65 protection, meet the outdoor installation and usage requirements
- Self-powered power supply with lightning protection
- Output cable sectional area 120 – 400 mm² (max. 400 mm² Al cable)
- MC4 connector



Reliable

- Highly optimize the system wiring
- Modular design for easy and quick maintenance
- CE

Parameters	PVS-8MH-DB	PVS-12MH-DB	PVS-16MH-DB
Max. PV string voltage	1500 V		
Max. PV string parallel inputs	8 * 2	12 * 2	16 * 2
Rated fuse current for each string (replaceable)	30 A		
Switch disconnecter	250 A	400 A	400 A
SPD	Type II		
Input terminal type	6 mm ² (MC4)		
Output terminal type	120 – 300 mm ²	120 – 300 mm ²	120 – 400 mm ²
Protection class	IP65		
Environment temperature	-40 °C to 60 °C		
Environment humidity	0 – 95 %		
Dimensions (W*H*D)	730*580*260 mm	730*580*260 mm	930*730*260 mm
Weight	28 kg	30 kg	40 kg
Material	SMC Plastic		

Standard Accessories

DC main output load switch	Yes
PV specific application SPD	Yes
PV SPD failure monitoring	Yes
PV self power supply for internal loads	Yes
Communication port	Yes
Current and voltage monitoring for each string	Yes

Optional Accessories

Negative grounding	Optional
Monitoring for load switch state	Optional



SUNBOX™ PVS-16M-DB

PV combiner box for 1000 Vdc system



Efficient and Safe

- PV specific application fuses, both positive and negative polarity
- PV specific application SPD with failure alarm function
- PV string current and voltage abnormal alarm
- Specific application combiner busbar parts with shield
- Main load breaker switch state monitoring (need optional accessory)



Flexible

- IP65 protection
- Self supplied power with SPD
- Output cable sectional area range 120 - 400 mm² (max. 400 mm² Al cable)



Reliable

- Highly optimize the system wiring
- Modular design for easy and quick maintenance
- CE



Parameters	PVS-16M-DB
Max. PV string voltage	1000 V
Max. PV string parallel inputs	16 * 2
Rated fuse current for each string (replaceable)	30 A
Input terminal type	6 mm ²
Output terminal type	120 – 400 mm ²
Protection class	IP65
Environment temperature	-40 °C to 60 °C
Environment humidity (non-condensing)	0 – 95 %
Dimensions (W*H*D)	720*680*180 mm
Weight	41 kg
Material of enclosure	Steel

Standard Accessories

DC main output load switch	Yes
PV specific application SPD	Yes
PV SPD failure monitoring	Yes
PV self power supply for internal loads	Yes
Communication port	Yes
Current and voltage monitoring for each string	Yes

Optional Accessories

Monitoring for load break switch state	Optional
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iSolarCloud

Remote Monitoring and O&M Platform



Flexible and Friendly

- Centralized PV plant management, low O&M cost
- User-defined performance views, full plant supervision via multi-dimensional analysis
- Flexible data access, Web portal&APP



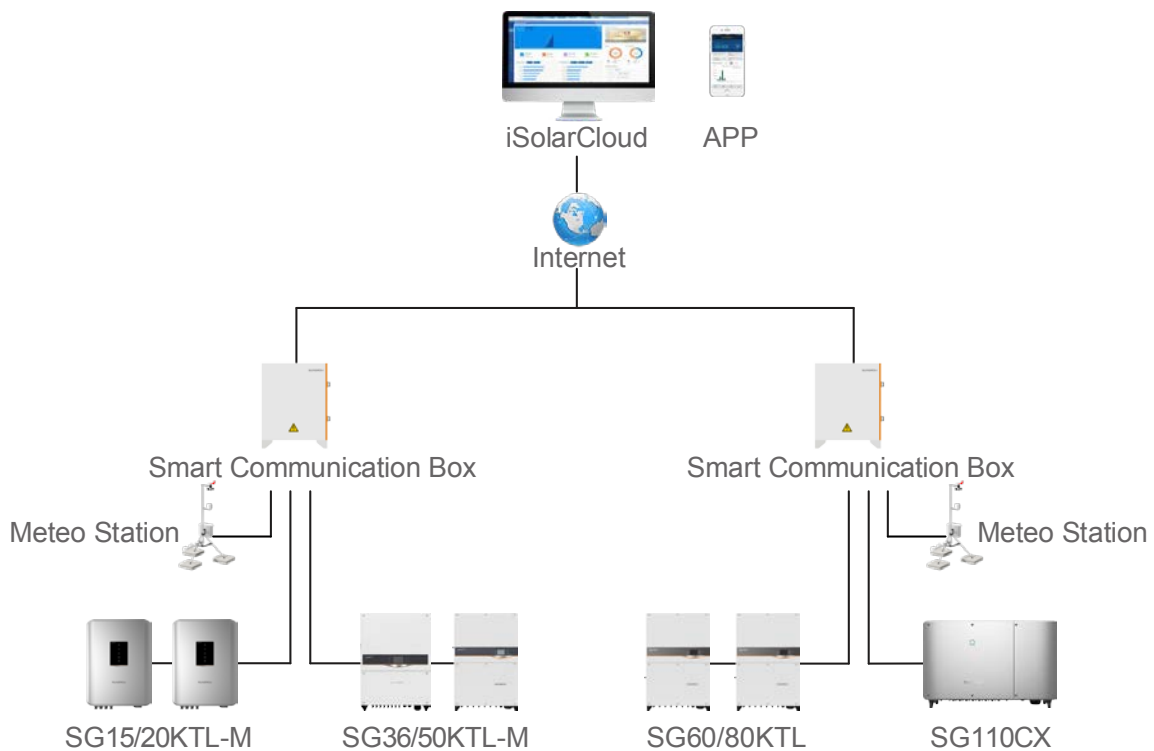
Simple and Efficient

- Simple Network infrastructure, fast platform deployment
- Real time fault analysis and report, quick trouble shooting



Safe and Reliable

- Hierarchical access management
- Redundant data storage over the lifecycle of your plants



iSolarCloud APP

For group management users

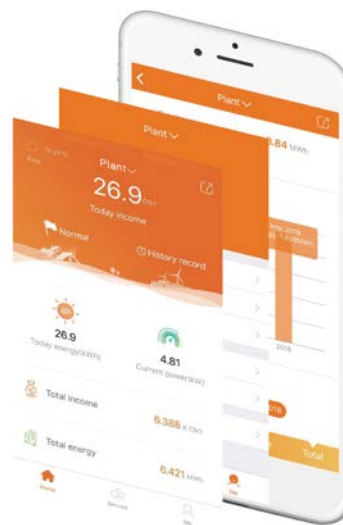
- Applicable to Android or Apple IOS system
- Remote monitoring, Guide operation and maintenance
- Report analysis, group KPI index management
- For group management users, centralized management of scattered PV station



iSolarHome APP

For residential end-users

- Applicable to Android or Apple IOS system
- Quickly view real-time and historical alarm information
- For residential end-users, real-time display of power generation and Revenue
- Wi-Fi configuration, one time configuration between internet router and inverter



Smart Communication Box

COM100 A



Smart and Flexible

- Flexible installation with wall-mounted, column-mounted and floor-standing method



Simple and Efficient

- Seamless connection to iSolarCloud for easier central management of PV plants



Safe and Reliable

- Electrical isolation and lightning protection equipped for each terminals to ensure the reliable communication

COM100A is intended for the Utility PV Plant with fiber ring network.

Standard Configuration

Logger3000	Max. management 200 devices
Fiber Switch	2 Fiber ports and 6 Ethernet ports
Fiber Splice Box	2-input and 12-output

Ambient Parameters

Operating temperature	-20 °C to 60 °C
Storage temperature	-30 °C to 70 °C
Operating humidity	≤ 95 % (non-condensing)
Max. operating altitude	≤ 3000 m
Protection class	IP65

Power Supply

Power supply	AC110 V – 240 V (50 / 60 Hz)
Power consumption	Typ. 20 W / Max. 30 W

Mechanical Parameters

Dimension (W*H*D)	570*790*190 mm
Weight	32 kg
Installation method	Wall mounting, pole mounting, ground mounting
Cable routing	In and out both from the bottom
Cable specification	AC power cable: outdoor UV protection cable of 1.0 mm RS485 cable: outdoor UV protection shielded twisted pair (STP) of 1.0 mm



Smart Communication Box

COM100 B



Smart and Flexible

- Integrated with 3G/4G router, convenient and flexible networking
- Flexible installation with wall-mounted, column mounted and floor-standing method



Simple and Efficient

- Seamless connection to iSolarCloud for easier central management of PV plants



Safe and Reliable

- IP65, ensuring long-term and stable outdoor operation



COM100B is applied to Commercial PV Plants supporting 3G/4G wireless communication or Ethernet communication.

Standard Configuration

Logger3000	Max. management 200 devices
3G/4G Router	UMTS Band 1/2/5/8 EDGE/GPRS/ GSM 850/900/1800/1900
Power Module	110 ~ 240 VAC – 24 VDC

Ambient Parameters

Operating temperature	-20 °C to 60 °C
Storage temperature	-30 °C to 70 °C
Operating humidity	≤ 95 % (non-condensing)
Max. operating altitude	≤ 3000 m
Protection class	IP65

Power Supply

Power module	110 V – 240 V (50 / 60 Hz)
Power consumption	Typ. 20 W / Max. 30 W

Mechanical Parameters

Dimension (W*H*D)	570*600*190 mm
Weight	24 kg
Installation method	Wall mounting, pole mounting, ground mounting
Cable routing	In and out both from the bottom
Cable specification	AC power cable: outdoor UV protection cable of 1.0 mm RS485 cable: outdoor UV protection shielded twisted pair (STP) of 1.0 mm



Smart Communication Box

COM100 C



Smart and Flexible

- Flexible installation with wall-mounted, column-mounted and floor-standing method



Simple and Efficient

- Seamless connection to iSolarCloud for easier central management of PV plants



Safe and Reliable

- Electrical isolation and lightning protection equipped for each terminals to ensure the reliable communication
- Long-term and stable operation of the device with IP 65 protection rating

COM100C is applied to Commercial PV stations supporting 3G/4G wireless communication or Ethernet communication.

Standard Configuration

Logger	Max. management 60 devices
Power Module	110 ~ 240 VAC – 24 VDC

Ambient Parameters

Operating temperature	-20 °C to 60 °C
Storage temperature	-30 °C to 70 °C
Operating humidity	≤ 95 % (non-condensing)
Max. operating altitude	≤ 3000 m
Protection class	IP65

Power Supply

Power supply	AC 110 V – 240 V (50 / 60 Hz)
Power consumption	Typ. 10 W / Max. 20 W

Mechanical Parameters

Dimension (W*H*D)	570*240*185 mm
Weight	12 kg
Installation method	Wall mounting, pole mounting, ground mounting
Cable routing	In and out both from the bottom
Cable specification	AC power cable: outdoor UV protection cable of 1.0 mm RS485 cable: outdoor UV protection shielded twisted pair (STP) of 1.0 mm



Logger3000



Flexible and Efficient

- Intelligent communication and control of the data collection
- Communication with up to 200 devices
- Integrated WEB module



Smart and Flexible

- Automatically distributing Modbus addresses
- Remote parameter setting and control of active & reactive power
- Upgrading inverter firmware in batches



Safe and Reliable

- All ports with electrical isolation protection, switch input port isolation voltage is 2500 V
- Dual power supply, automatically switch



Communication

Inverter communication	RS485
PC communication	Ethernet / RS485

Max. Communication Range

RS485/Ethernet	1000 m / 100 m
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Interface Design

RS485	6
Digital input port	16
Digital output port	4
Ethernet port	2

Power Supply

Power module	110 V – 240 V (50 / 60 Hz)
Adapter input voltage	9 V – 24 V
Power consumption	Avg. 8 W / Max. 15 W

Environmental Conditions

Operating Temperature	-30 °C to 60 °C
Storage Temperature	-40 °C to 80 °C
Relative Humidity	4000 m
Max. operating altitude	≤ 95 %, no condensing
Ingress protection rating	IP20

Memory

Internal	4 GB circulating memory
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General Data

Dimension (W*H*D)	440*44*241mm
Weight	3000 g
Installation method	Rack-mounted installation, wall mounted installation
Man-Machine Interaction	WEB
Language	Chinese, English, Japanese
Compliance	UL 60950-1, FCC, IEC 62109-1, IEC 61000-6-2/-4



E-Net



Smart and Flexible

- Supporting DHCP, and automatic network transmission without configuration
- Applicable to scenarios in which wireless communication is inaccessible



Simple and Efficient

- Supporting remote operation and maintenance functions including remote upgrading, parameter setting
- Plug and play, quick installation



Safe and Reliable

- Wire transmission, stable and reliable
- IP65, wide temperature range

Basic data

Supported device number	1
Display	LED * 3
Configuration	Embedded Web

Max. Communication Range

RS485	1
Remote communication port	10/100 M Ethernet

Power Supply

Input voltage	5.0 ± 0.25 Vdc
Power consumption	Typ. 2 W

Ambient Parameters

Operating temperature	-25 °C to 60 °C
Allowable relative humidity range (non-condensing)	≤ 95 %
Max. operating altitude	≤ 4000 m
Protection class	IP65

Mechanical Parameters

Dimensions (W*H*D)	48*127*36 mm
Installation	Plug-in type



WiFi



Smart and Flexible

- Supporting mainstream WLAN networking protocols, with favourable compatibility



Simple and Efficient

- Supporting remote operation and maintenance functions including remote upgrading, parameter setting
- Supporting direct connection configuration with APP, quickly and easily
- Plug and play, quick installation



Safe and Reliable

- Professional design in wireless communication, and high quality signal
- IP65, wide temperature range



Basic Data

Supported device number	1
Display	LED * 3
Configuration	APP

Max. Communication Range

RS485	1
WLAN	2.4 GHz 802.11 b/g/n

Power Supply

Input voltage	5.0 ± 0.25 Vdc
Power consumption	Typ. 2 W

Ambient Parameters

Operating temperature	-25 °C to 60 °C
Allowable relative humidity range (non-condensing)	≤ 95 %
Max. operating altitude	≤ 4000 m
Protection class	IP65

Mechanical Parameters

Dimensions (W*H*D)	48*97*36 mm
Installation	Plug-in type



Global Reference

Utility PV Plants



2017 205 MW PV Plant Fresno, California, USA 



190MW Floating PV Plant China 🇨🇳



13.03 MW PV Plant UK 🇬🇧



50 MW PV Plant India 🇮🇳



40 MW PV Plant Thailand 🇹🇭



30 MW PV Plant USA 🇺🇸

SUNGROW



225 MW PV Plant Pakistan 🇵🇰



5 MW PV Plant Spain 🇪🇸



5 MW PV Plant Carver USA 🇺🇸



12 MW PV Plant Sardinia Italy 🇮🇹

Commercial PV Plants



8.3 MW PV Plant Berlin German 



5 MW Scandia, Minnesota, USA 



5 MW PV Plant Great Seabrook UK 



100 kw PV plant Japan 



3 kw Residential PV Plant Australia 

SUNGROW

We are committed to the clean and efficient energy, and to bring more green electricity to all mankind

We have a thorough understanding of customers' needs to provide them with comprehensive and perfect services:



Consulting Services

Sungrow has set up marketing service agencies in France, Germany, Italy, Austria, the United States, Canada, Australia and other countries to provide customers with professional and convenient project advisory services.



System design services

Our senior system engineers have abundant PV power generation system design experience for years, who's able to develop tailored solutions accurately. The system design profile, budget, power generating capacity, and data as carbon dioxide emissions will be took into account and provided to the customer as well.



Quality assurance services

We pursue high quality all the time. Every product is under quality inspections during manufacturing process, and needs to pass the complete machine test before shipment to ensure that it can be stably operated. Detailed and rapid warranty services are guaranteed by on-line monitoring system, hardware/software upgrades, regular inspection and training.



Training services

We provide customers with comprehensive, professional technical training and guidance by delivering the knowledge of power system and equipment's daily use and maintenance.



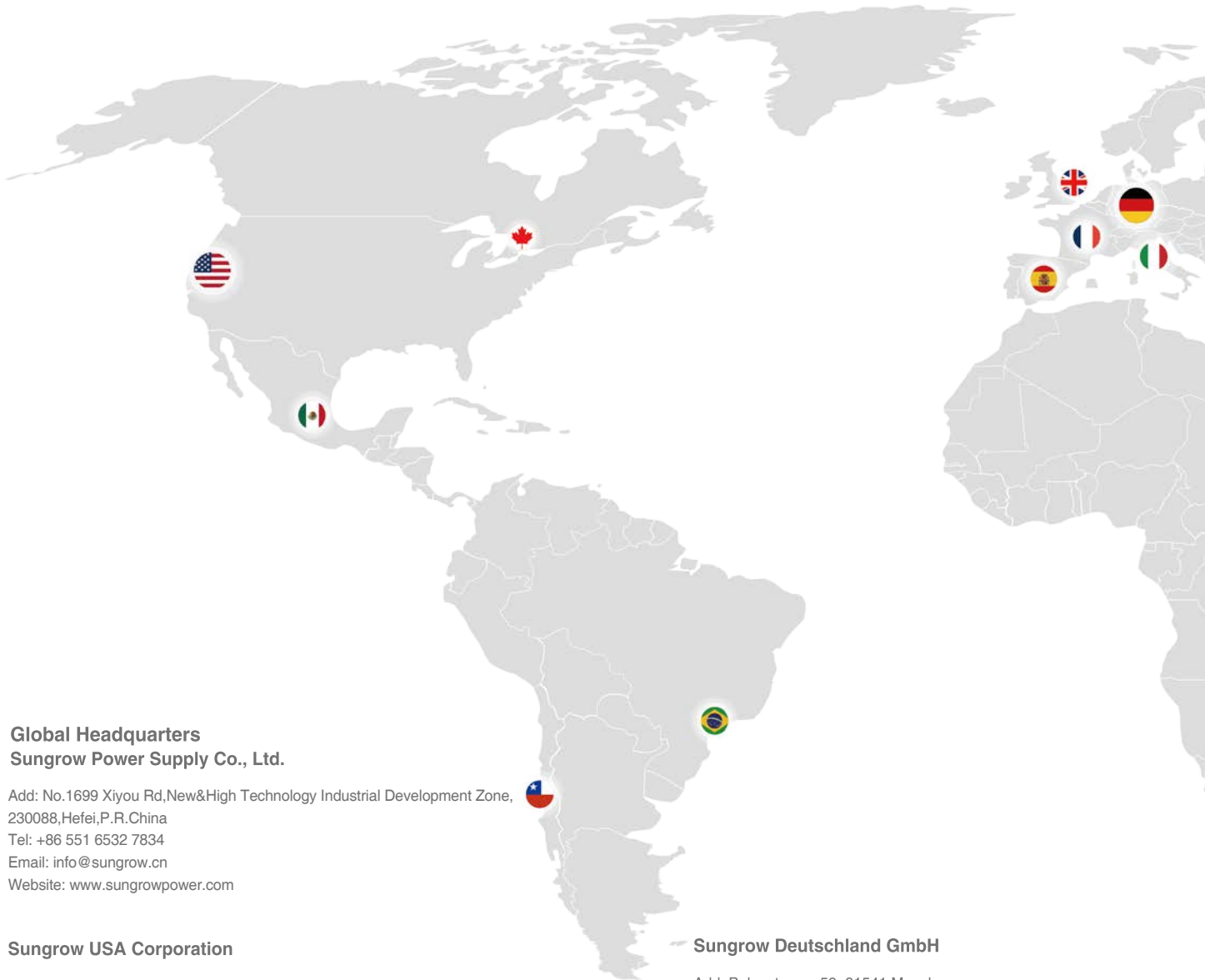
On-site service

Our technical service engineers can provide customers with professional and rapid installation and debugging services according to requirements, to ensure that customers' projects would be successfully completed and connected to the grid perfectly.





Global Entry



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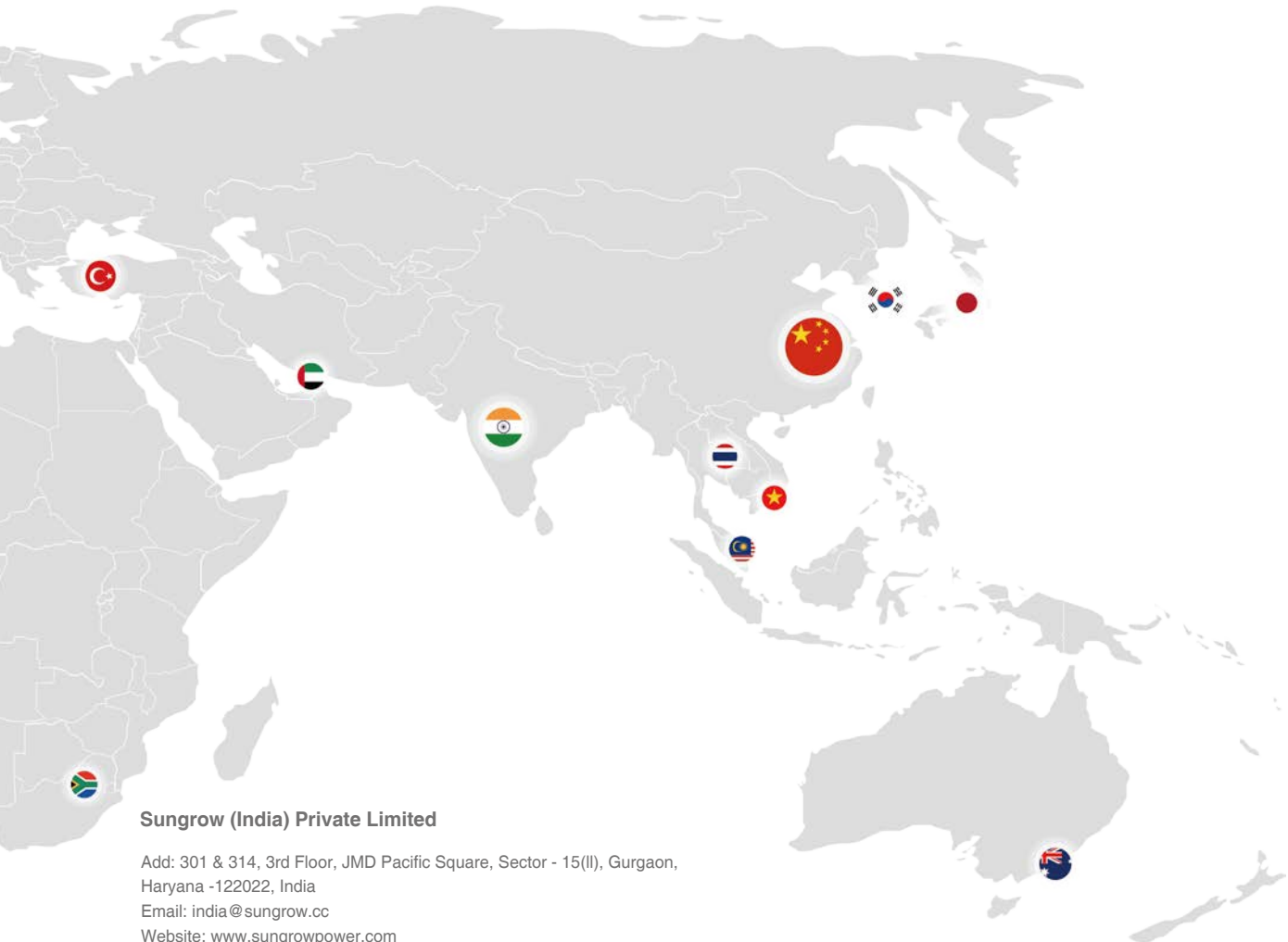
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