



PV GRID-CONNECTED INVERTERS

2019 / 2020



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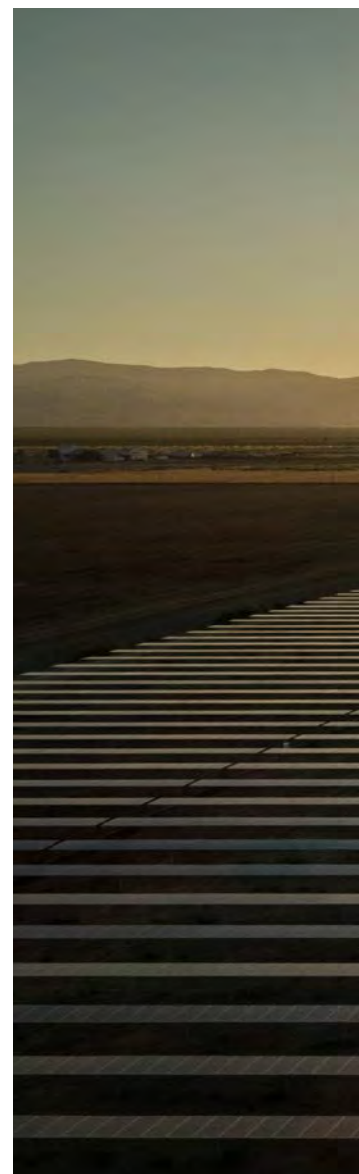
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79_{GW}⁺

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



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

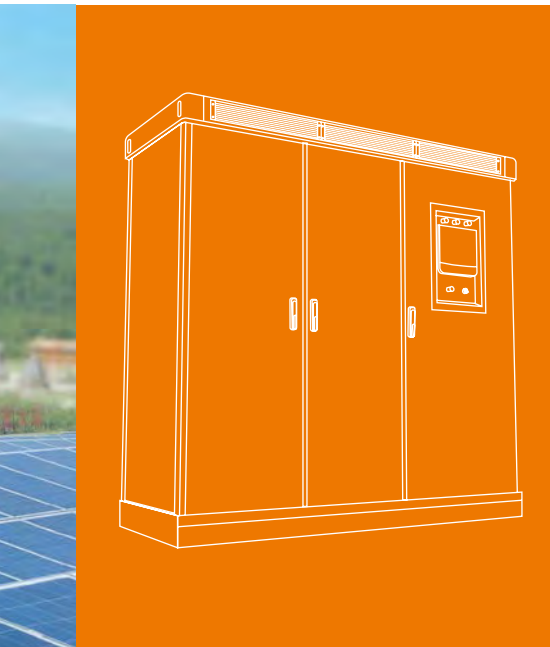
Sungrow Power Supply Co., Ltd ("Sungrow") is a global leading inverter solution supplier for renewables with over 79 GW installed worldwide as of December 2018. Founded in 1997 by University Professor Cao Renxian, Sungrow is a leader in the research and development of solar inverters, with the largest 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 1000 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 3 GW 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



6.25/6.8 MVA MV Turnkey
Station

SG3150U/SG2500U

SG1250UD/SG1500UD

SG3400HV-MV-20/

SG3125HV-MV-20/

SG2500HV-MV-20

SG3150U-MV/SG2500U-MV

SG3400HV-20/SG3125HV-20/

SG2500HV-20

6.25/6.8 MVA MV Turnkey Station

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MV Turnkey Solution for 1500 Vdc System



HIGH YIELD

- 3-level technology, inverter max. efficiency 99%
- High DC / AC ratio up to 1.5



EASY O&M

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



SAVED INVESTMENT

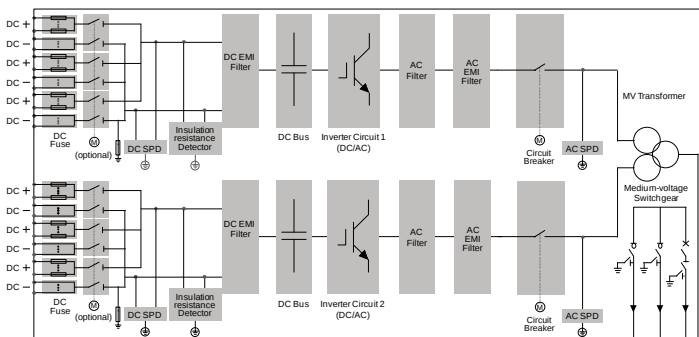
- Easy transportation and installation due to standard container design
- Q at night function (Optional)



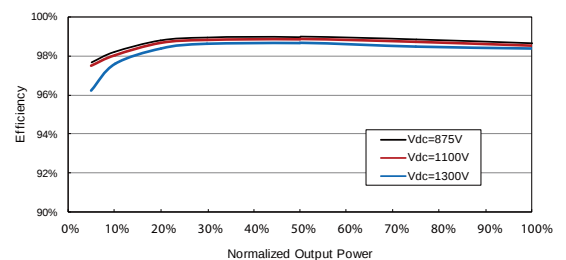
GRID SUPPORT

- Compliance with standards: IEC 61727, IEC 62116
- Reactive & active power control
- Low / High voltage ride through (L / HVRT), Frequency ride through (FRT)

CIRCUIT DIAGRAM



EFFICIENCY CURVE



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6.25/6.8 MVA MV Turnkey Station

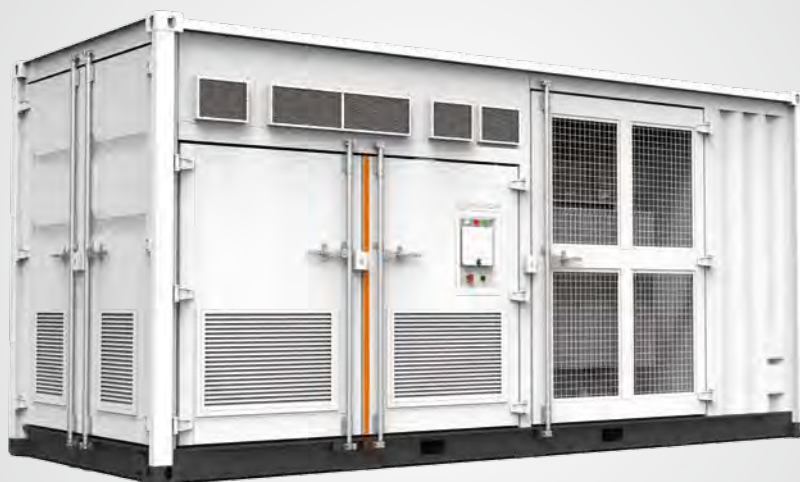
Type designation	6.25 MVA MV Turnkey Station	6.8 MVA MV Turnkey Station
Input (DC)		
Max. PV input voltage	1500V	
Min. PV input voltage / Startup input voltage	875 V / 915 V	
MPP voltage range for nominal power	875 – 1300 V	
No. of independent MPP inputs	2	
No. of DC inputs	42 (optional: 48 negative grounding or floating; 56 negative grounding)	
Max. PV input current	2 * 4178 A	
Output (AC)		
AC output power	2 * 3593 kVA @ 25 °C / 2 * 3437 kVA @ 45 °C / 2 * 3125 kVA @ 50 °C	2 * 3593 kVA@ 25 °C / 2 * 3437 kVA @ 45 °C
AC voltage range	20 – 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	99.0 %	
Inverter Euro. efficiency	98.7 %	
Transformer		
Transformer rated power	6250 kVA	6873 kVA
Transformer max. power	7186 kVA	
LV / MV voltage	0.6 – 0.6 kV / 20 – 35 kV	
Transformer vector	Dy11 y11	
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	Yes	
General Data		
Weight	31.1 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, FRT, active & reactive power control and power ramp rate control	



SG3400/3125/2500HV-MV-20

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



HIGH YIELD

- Advanced three-level technology, max. inverter efficiency 99 %



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

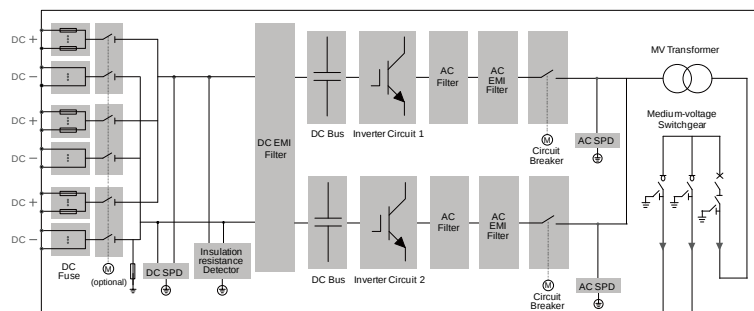
- Low transportation and installation cost due to 20-foot container design
- DC 1500 V system, low system cost
- Integrated MV transformer and switchgear
- Q at night function optional



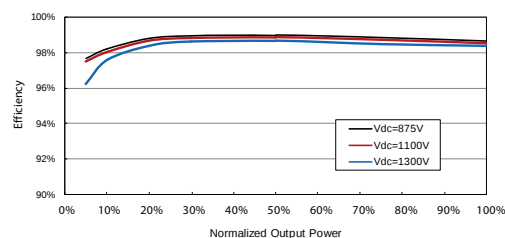
GRID SUPPORT

- 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



EFFICIENCY CURVE (SG3400HV-20)



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Type designation	SG3400HV-MV-20	SG3125HV-MV-20	SG2500HV-MV-20
Input (DC)			
Max. PV input voltage	1500 V		
Min. PV input voltage / Startup input voltage	875 V / 915 V	875 V / 915 V	800 V / 840 V
MPP voltage range for nominal power	875 – 1300 V	875 – 1300 V	800 – 1300 V
No. of independent MPP inputs	1		
No. of DC inputs	21 (optional: 24 negative grounding or floating; 28 negative grounding)		18 – 21
Max. PV input current	4178 A	4178 A	3508 A
Output (AC)			
AC output power	3593 kVA@ 25 °C / 3437 kVA@ 45 °C	3593 kVA@ 25 °C / 3437 kVA@ 45 °C / 3125 kVA@ 50 °C	2750 kVA@ 45 °C / 2500 kVA@ 50 °C
Max. AC output current	3458 A	3458 A	2886 A
AC voltage range	10 – 35 kV		
Nominal grid f requency / Grid f requency 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	99.0 %		
Inverter Euro. efficiency	98.7 %		
Transformer			
Transformer rated power	3437 kVA	3125 kVA	2500 kVA
Transformer max. power	3593 kVA	3593 kVA	2750 kVA
LV / MV voltage	0.6 kV / 10 – 35 kV	0.6 kV / 10 – 35 kV	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 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 / A C Type II		
Grid monitoring / Ground fault monitoring	Yes / Yes		
Insulation monitoring	Yes		
Overheat protection	Yes		
Q at night function	Optional		
General Data			
Dimensions (W*H*D)	6058 * 2896 * 2438 mm		
Weight	18 T		
Degree of protection	IP54 (Inverter: IP55)	IP54 (Inverter: IP55)	IP54
Auxiliary power supply	415 V, 15 kVA (Optional: max. 40 kVA)	415 V, 15 kVA (Optional: max. 40 kVA)	415 V, 5 kVA (Optional: max. 40 kVA)
Operating ambient temperature range	-35 to 60 °C (> 45 °C derating)	-35 to 60 °C (> 50 °C der ating)	-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		



SG3150/2500U-MV New

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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

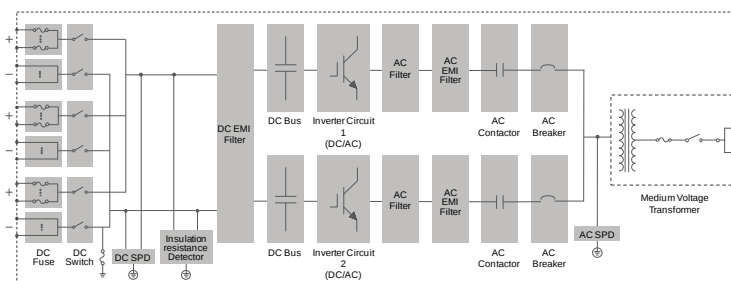
- Low transportation and installation cost due to 20-foot container design
- 1500V DC system, low system cost
- Integrated MV transformer and LV auxiliary power supply



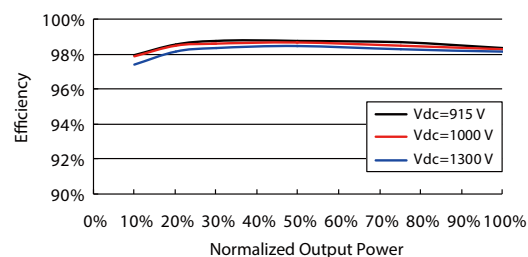
GRID SUPPORT

- 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



EFFICIENCY CURVE (SG3150U)



Type designation	SG3150U-MV	SG2500U-MV
Input (DC)		
Max. PV input voltage	1500V	
Min. PV input voltage / Startup input voltage	915 V / 955 V	800 V / 840 V
MPP voltage range for nominal power	940 – 1300 V	800 – 1300 V
No. of independent MPP inputs	1	
No. of DC inputs	18 – 24	18 – 21
Max. PV input current	3420 A	3508 A
Max. DC short-circuit current	4800 A	
PV array configuration	Negative grounding	
Output (AC)		
AC output power	3150 kVA @ 45 °C (113 °F)	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 % 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	98.8 %	
Inverter Euro. efficiency	98.5 %	
Transformer		
Transformer rated power	3150 kVA	2500 kVA
Transformer max. power	3150 kVA	2750 kVA
LV / MV voltage	0.63 kV / 34.5 kV	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 and Function		
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))	-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	



SG3400/3125/2500HV-20

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Turnkey Station for 1500 Vdc System



HIGH YIELD

- Advanced three-level technology, max. inverter efficiency 99 %



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

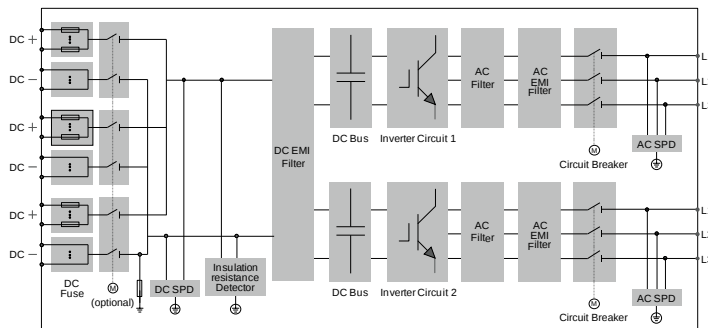
- Low transportation and installation cost due to 10-foot container design
- DC 1500 V system, low system cost
- Integrated LV auxiliary power supply
- Q at night function optional



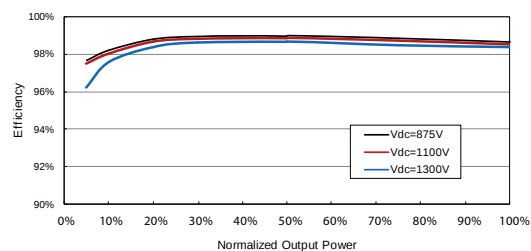
GRID SUPPORT

- 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



EFFICIENCY CURVE (SG3400HV-20)



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Type designation	SG3400HV-20	SG3125HV-20	SG2500HV-20
Input (DC)			
Max. PV input voltage	1500 V		
Min. PV input voltage / Startup input voltage	875 V / 915 V	875 V / 915 V	800 V / 840 V
MPP voltage range for nominal power	875 – 1300 V	875 – 1300 V	800 – 1300 V
No. of independent MPP inputs	1		
No. of DC inputs	21 (optional: 24 negative grounding or floating; 28 negative grounding)		18 – 24
Max. PV input current	4178 A	4178 A	3508 A
Output (AC)			
AC output power	3593 kVA @ 25 °C / 3437 kVA @ 45 °C	3593 kVA@ 25 °C / 3437 kVA@ 45 °C / 3125 kVA@ 50 °C	2750 kVA@ 45 °C / 2500 kVA@ 50 °C
Max. AC output current	3458 A	3458 A	2886 A
Nominal AC voltage	600 V	600 V	550 V
AC voltage range	480 – 690 V	480 – 690 V	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			
Inverter Max. efficiency	99.0%		
Inverter Euro. efficiency	98.7 %		
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		
General Data			
Dimensions (W*H*D)	2991*2591*2438 mm		
Weight	6.5 T		
Isolation method	Transformerless		
Degree of protection	IP55	IP55	IP54
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)	4000 m (>3000 m derating)	4000 m (> 2000 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		



SG3150U/SG2500U New

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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

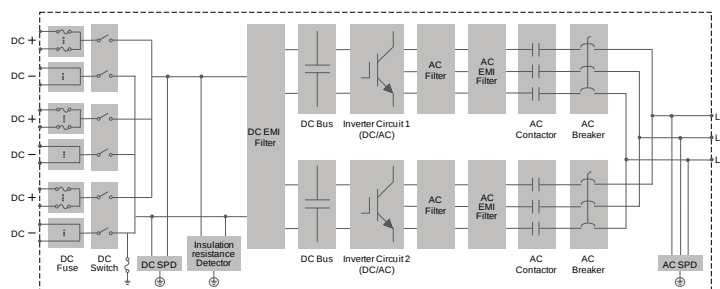
- Low transportation and installation cost due to 10-foot container design
- 1500V DC system, low system cost
- Integrated LV auxiliary power supply



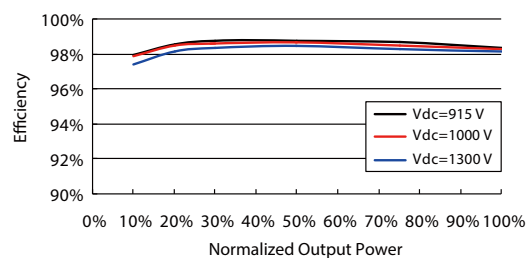
GRID SUPPORT

- 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 (SG3150U)



Type designation	SG3150U		SG2500U
Input (DC)			
Max. PV input voltage	1500V		
Min. PV input voltage / Startup input voltage	915 V / 955 V		800 V / 840 V
MPP voltage range for nominal power	940 – 1300 V		800 – 1300 V
No. of independent MPP inputs	1		
No. of DC inputs	18 – 24		18 – 21
Max. PV input current	3420 A		3508 A
Max. DC short-circuit current	4800 A		
Output (AC)			
AC output power	3150 kVA @ 45 °C (113 °F)		2750 kVA @ 45 °C (113 °F) / 2500 kVA @ 50 °C (122 °F)
Max. AC output current	2886 A		
Nominal AC voltage	630 V		550 V
AC voltage range	554 - 690 V	554 - 690 V	484 - 605 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	98.8%		
CEC efficiency	98.5 %		
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))		-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	L/HVRT, L/HFRT, active & reactive power control and power ramp rate control, Volt-var, Frequency-watt		



SG1250UD/SG1500UD

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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 P_n
- 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

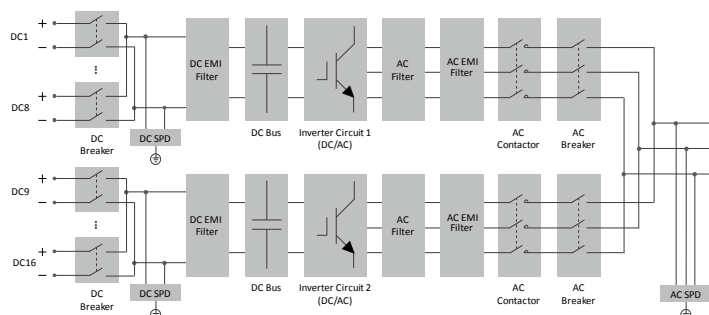
- Can be connected to double-winding transformer, saving transformer costs
- Q at night function optional



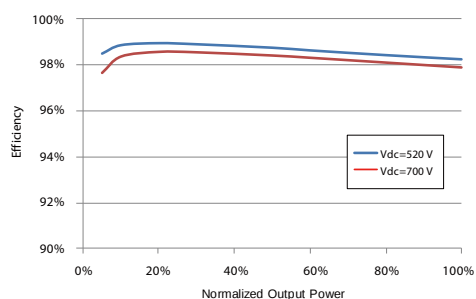
GRID SUPPORT

- 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



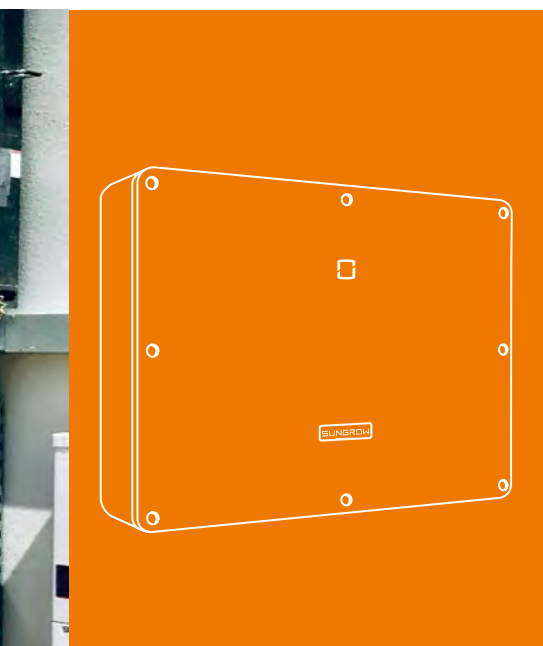
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Type designation	SG2000	SG2500
Input (DC)		
Max. PV input voltage	1100 V	
Min. PV input voltage / Startup input voltage	520 V / 540 V	580 V / 600 V
MPP voltage range for nominal power	520 – 850 V	580 – 850 V
No. of independent MPP inputs	2	
No. of 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	> 0.99	
Adjustable power factor	0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	3 / 3	
Efficiency		
Max. efficiency	99.0 %	
Euro. efficiency	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	
General Data		
Dimensions (W*H*D)	2150*2120*850 mm	
Weight	1900 kg	
Isolation method	Transformerless	
Degree of protection	IP65	
Auxilury 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





String Inverter



SG250HX

SG125HV

SG110CX

SG33/40/50CX

SG33/50CX-US

SG49K5J

SG33K3J

SG15KTL-M/SG20KTL-M

SG10KTL-M/SG12KTL-M

SG5KTL-MT/SG6KTL-MT/

SG8KTL-M

SG8K3-D

SG8K-D

SG3K/3K6/4K/4K6/5K/6K-D

SG2K/2K5/3K-S

SH5.0/6.0/8.0/10RT

SH3K6/SH4K6

SG250HX New

SUNGROW

Clean power for all

Multi-MPPT String Inverter for 1500 Vdc System



HIGH YIELD

- 12 MPPTs with max. efficiency 99%
- Compatible with bifacial module
- Built-in Anti-PID and PID recovery function



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

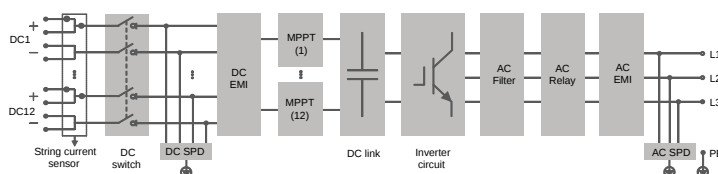
- Compatible with Al and Cu AC cables
- DC 2 in 1 connection enabled
- Power line communication (PLC) optional
- Q at night function



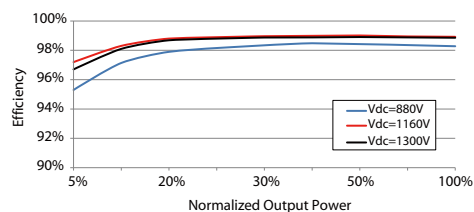
PROVEN SAFETY

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

CIRCUIT DIAGRAM



EFFICIENCY CURVE



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Type designation	SG250HX
Input (DC)	
Max. PV input voltage	1500 V
Min. PV input voltage / Startup input voltage	600 V / 600 V
Nominal PV input voltage	1080 V
MPP voltage range	600 V – 1500 V
MPP voltage range for nominal power	860 V – 1300 V
No. of independent MPP inputs	12
Max. number of PV strings per MPPT	2
Max. PV input current	26 A * 12
Max. current for input connector	30 A
Max. DC short-circuit current	50 A * 12
Output (AC)	
AC output power	250 kVA @ 30 °C / 225 kVA @40 °C/200 kVA @50°C
Max. AC output current	180.5 A
Nominal AC voltage	3 / PE, 800 V
AC voltage range	680 – 880V
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	99.0 %
European efficiency	98.7 %
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 protection	Anti-PID or PID recovery
Overvoltage protection	DC Type II / AC Type II
General Data	
Dimensions (W*H*D)	1051 * 660 * 363 mm
Weight	95kg
Isolation method	Transformerless
Ingress protection rating	IP66
Night power consumption	< 2 W
Operating ambient temperature range	-30 to 60 °C
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: PLC
DC connection type	Amphenol UTX (Max. 6 mm ²)
AC connection type	OT terminal (Max. 300 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, UNE 206007-1:2013, P.O.12.3, UTE C15-712-1:2013, UL1741, UL1741SA, IEEE1547, IEEE1547.1, CSA C22.2 107.1-01-2001, FCC Part15 Sub-part B Class A Limits, California Rule 21
Grid Support	Q at night function, LVRT, HVRT, active & reactive power control and power ramp rate control



SG125HV

String Inverter for 1500 Vdc System

SUNGROW

Clean power for all



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

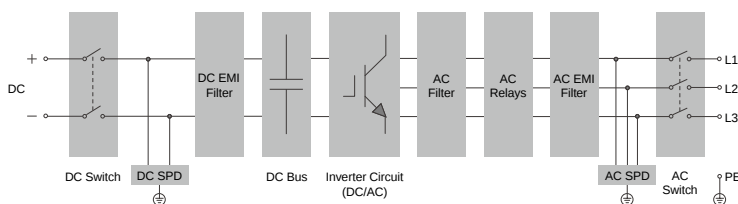
- DC 1500V, AC 600V, low system initial investment
- 1 to 5MW power block design for lower AC transformer and labor cost
- Max.DC/AC ratio up to 1.5



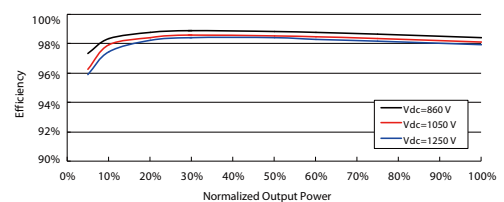
GRID SUPPORT

- 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



Type designation	SG125HV
Input (DC)	
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



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



EASY 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

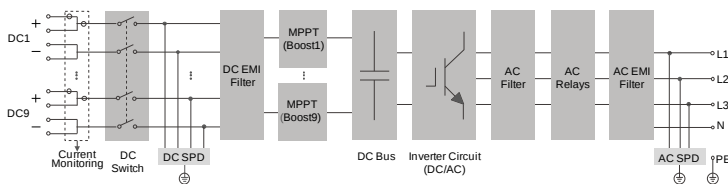
- Compatible with Al and Cu AC cables
- DC 2 in 1 connection enabled
- Q at night function



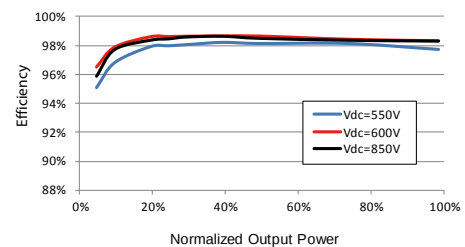
PROVEN SAFETY

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

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG110CX
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
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	98.7 %
Euro. efficiency	98.5 %
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



SG33CX/SG40CX/SG50CX **New**

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Clean power for all

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

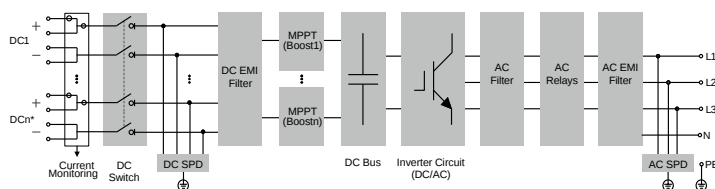
- Compatible with Al and Cu AC cables
- DC 2 in 1 connection enabled
- Cable free communication with optional Wi-Fi



PROVEN SAFETY

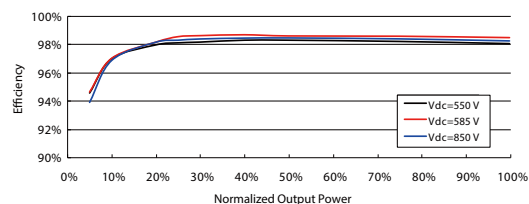
- IP66 and C5 protection
- Type II SPD for both DC and AC
- Compliant with global safety and grid code

CIRCUIT DIAGRAM



*: n=3(SG33CX)4(SG40CX)5(SG50CX)

EFFICIENCY CURVE



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Type designation	SG33CX	SG40CX	SG50CX
Input (DC)			
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	83.6A
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 % 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	98.6 % / 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	



SG33CX-US/SG55CX-US ^{New}

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Clean power for all

String Inverter For North America



HIGH YIELD

- Up to 6 MPPTs with max. efficiency 98.9%
- Compatible with bifacial module
- Built-in PID recovery function



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

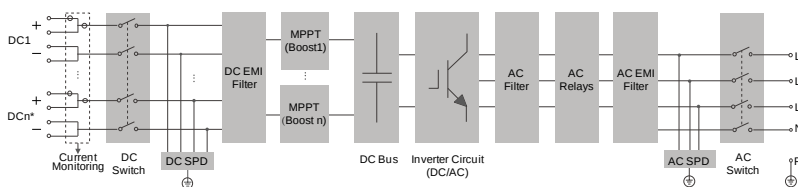
- DC/AC ratio more than 1.5
- Compatible with Al and Cu AC cables
- Flexible installation from vertical to horizontal



PROVEN SAFETY

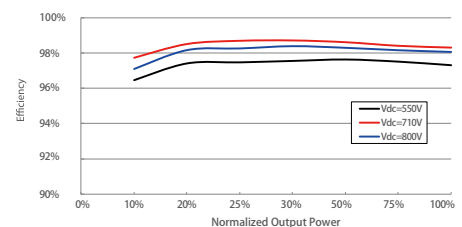
- NEMA 4X and C5 protection
- Type II SPD for both DC and AC
- Compliant with UL safety and grid code

CIRCUIT DIAGRAM



*: n=4 (SG33CX-US) / 6 (SG55CX-US)

EFFICIENCY CURVE



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Type designation	SG33CX-US	SG55CX-US
Input (DC)		
Max. PV input voltage	1000 V	
Min. PV input voltage / Start-up input voltage	200 V / 200 V	
Nominal PV input voltage	710 V	
MPP voltage range	200 – 1000 V	
MPP voltage range for nominal power	500 – 850 V	
No. of independent MPP inputs	4	6
Max. number of PV strings per MPPT	2 / 2 / 2 / 2	2 / 2 / 2 / 2 / 2 / 2
Max. PV input current	26 A * 4	26 A * 6
Max. current for input connector	15 A	
Max. DC short-circuit current	40 A * 4	40 A * 6
Output (AC)		
AC output power	33 kVA @ 45 °C (113 °F) / 30 kVA @ 50 °C (122 °F)	55 kVA @ 45 °C (113 °F) / 50 kVA @ 50 °C (122 °F)
Max. AC output current	39.7A	
Nominal AC voltage	3 / N / 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 % 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	98.7% / 98.5%	98.9% / 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	
PV string current monitoring	Yes	
Anti-PID function	Yes	
Arc fault circuit interrupter (AFCI)	Yes	
Overvoltage protection	DC Type II / AC Type II	
General Data		
Dimensions (W*H*D)	780*930*310 mm (30.7"*36.6"*12.2")	
Weight	62 kg (136.7 lbs)	68 kg (149.9 lbs)
Isolation method	Transformerless	
Degree of protection	NEMA 4X	
Night power consumption	< 2 W	
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: WiFi, Ethernet	
Third-Party communication protocol	SunSpec Modbus	
DC connection type	Screw clamp terminal (10AWG, Cu or Al)	
AC connection type	OT (max. 2 / 0AWG, 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	LVRT, HVRT, active & reactive power control and power ramp rate control	



SG49K5J

SUNGROW

Clean power for all

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

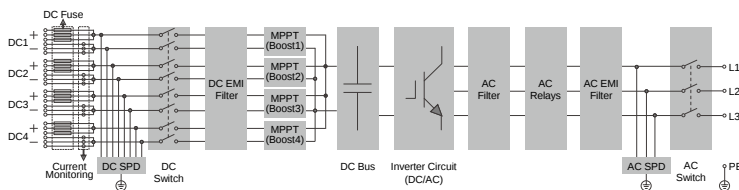
- Max. DC/AC ratio up to 1.5
- Capacity less than 50 kW plant only need one inverter
- Can be installed horizontally, saving installation cost



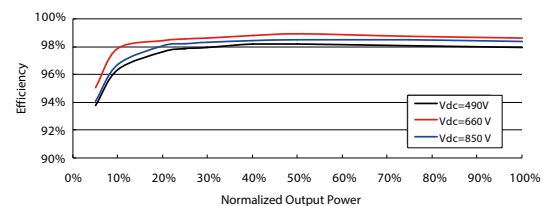
GRID SUPPORT

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

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG49K5J
Input (DC)	
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 % 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	98.9 %
Euro. 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
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

SUNGROW
Clean power for all

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 MPP 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

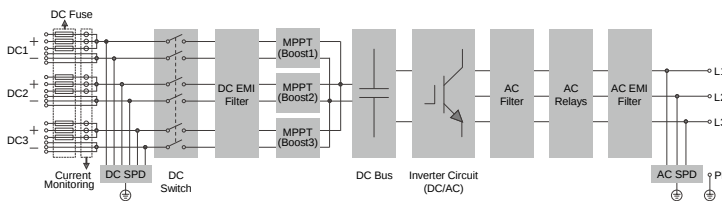
- Max. DC/AC ratio up to 1.8
- Can be installed horizontally, saving installation cost



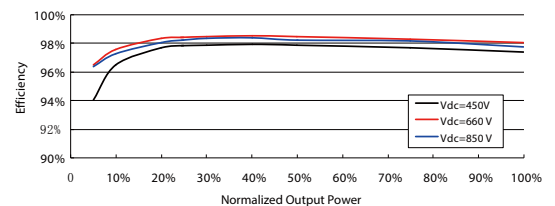
GRID SUPPORT

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

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SG33K3J
Input (DC)	
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 % 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	98.5 %
Euro. efficiency	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	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

SUNGROW
Clean power for all

Multi-MPPT String Inverter for 1000 Vdc System



HIGH YIELD

- Industry leading efficiency of 98.6%
- 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

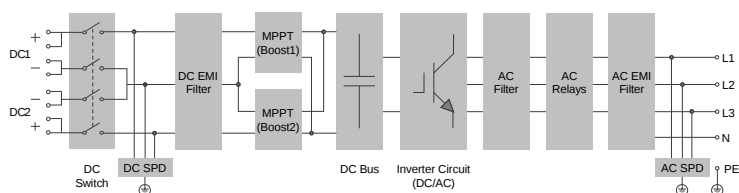
- Built-in surge arresters and residual current protection
- High anti-corrosion rating at C5



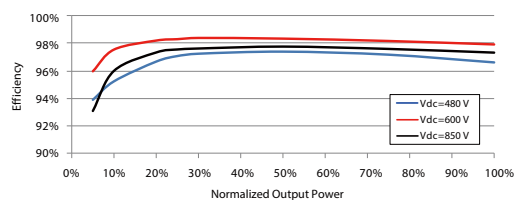
EASY AND USER FRIENDLY

- 24kg compact design
- Unique push-in connectors for time-saving installation
- Mounting plate with built-in level
- Fast and easy commissioning via App

CIRCUIT DIAGRAM



EFFICIENCY CURVE



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Type designation	SG15KTL-M	SG20KTL-M
Input (DC)		
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	> 0.99	
Adjustable power factor	0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	3 / 3	
Efficiency		
Max. efficiency / Euro. efficiency	98.6 % / 98.3 %	
Protection		
LVRT	Yes	
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	< 3 W	
Operating ambient temperature range	-25 to 60 °C (> 45 °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 (Optional: WiFi / Ethernet)	
DC connection type	MC4 (Max. 6 mm²)	
AC connection type	Plug and play connector (Max. 16 mm²)	
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

SUNGROW

Clean power for all

Multi-MPPT String Inverter for 1000 Vdc System



HIGH YIELD

- Industry leading efficiency of 98.6%
- 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

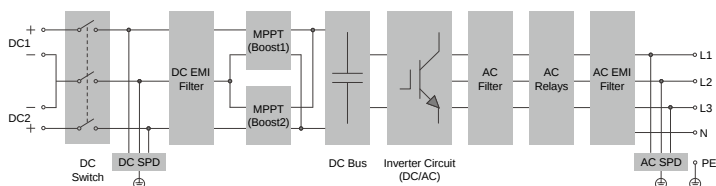
- Built-in surge arresters and residual current protection
- High anti-corrosion rating at C5



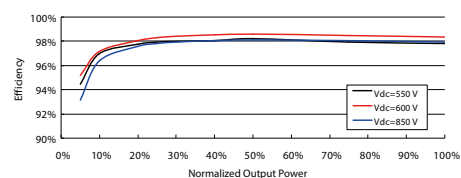
EASY AND USER FRIENDLY

- 20kg compact design
- Unique push-in connectors for time-saving installation
- Mounting plate with built-in level
- Fast and easy commissioning via App

CIRCUIT DIAGRAM



EFFICIENCY CURVE



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Type designation	SG10KTL-M	SG12KTL-M
Input (DC)		
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	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	> 0.99	
Ajustable power factor	0.8 leading – 0.8 lagging	
Feed-in phases / connection phases	3 / 3	
Efficiency		
Max. efficiency / Euro. efficiency	98.6 % / 98.1 %	
Protection		
LVRT	Yes	
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	< 3 W	
Operating ambient temperature range	-25 to 60 °C (> 45 °C derating)	
Allowable relative humidity range	0 – 100 % (non-condensing)	
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 mm²)	
AC connection type	Plug and play connector (Max. 6 mm²)	
Compliance	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-3-11, IEC/EN 61000-3-12, UTE C15-712-1, IEC 61727, IEC 62116, VDE0126-1-1/4105, G59/3, CEI 0-21, UNE 206007-1, EN50438:2013	
Grid support	Active & reactive power control and power ramp rate control	
Type designation	SG10KTL-M	SG12KTL-M

* VDE4105 :10000VA



SG5KTL-MT/SG6KTL-MT/ SG8KTL-M

SUNGROW
Clean power for all

Multi-MPPT String Inverter for 1000 Vdc System



HIGH YIELD

- Industry leading efficiency of 98.6%
- 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

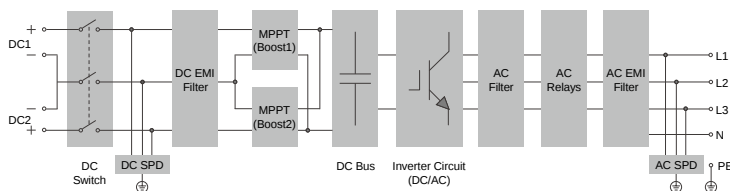
- Built-in surge arresters and residual current protection
- High anti-corrosion rating at C5



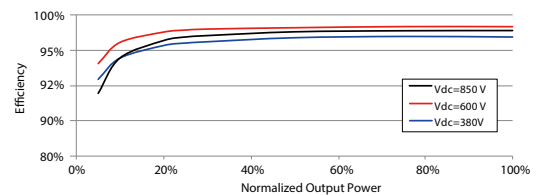
EASY AND USER FRIENDLY

- 20kg compact design
- Unique push-in connectors for time-saving installation
- Mounting plate with built-in level
- Fast and easy commissioning via App

CIRCUIT DIAGRAM



EFFICIENCY CURVE



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Type designation	SG5KTL-MT	SG6KTL-MT	SG8KTL-M
Input (DC)			
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)			
Nominal AC power (at 45 °C)	5000 W	6000 W	8000 W
Max. AC power when PF = 1 (at 35 °C)	5500 W	6600 W	8800 W
Max. AC apparent power (at 35 °C)	5500 VA	6600 VA	8800 VA
Max. AC output current (at 35 °C)	8.5A	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 % In		
Power factor at nominal power	>0.99		
Ajustable power factor	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			
LVRT	Yes		
Islanding Protection	Yes		
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	< 3 W		
Operating ambient temperature range	-25 to 60 °C (> 45 °C derating)		
Allowable relative humidity range	0 – 100 % (non-condensing)		
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 mm²)		
AC connection type	Plug and play connector (Max. 6 mm²)		
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, UNE 206007-1
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



SG8K-D/SG8K3-D

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Residential String Inverter



HIGH YIELD

- Industry leading efficiency of 98.5%
- Flexible PV string configurations
- High DC/AC ratio up to 1.3



SMART MANAGEMENT

- Feature-rich online monitoring via App or Web
- Firmware updates & new monitoring features
- Gain energy flow with Sungrow smart meter



SAFE AND RELIABLE

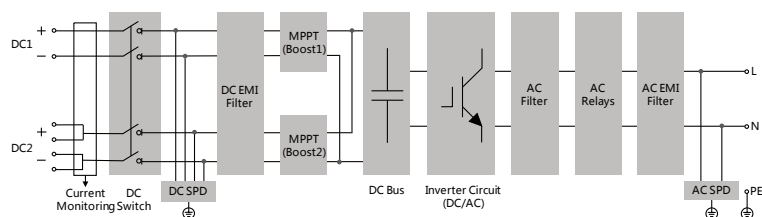
- Built-in surge arresters & RCD
- Cutting-edge technology ensures long life time
- High anti-corrosion rating at C5



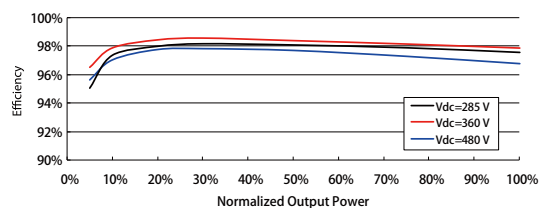
EASY INSTALLATION

- Push-in connectors for time-saving installation
- Mounting plate with built-in level
- Fast and easy commissioning via App or LCD

CIRCUIT DIAGRAM (SG8K3-D)



EFFICIENCY CURVE (SG8K3-D)



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Type designation	SG8K-D	SG8K3-D
Input (DC)		
Max. PV input voltage	600 V	
Min. PV input voltage / Startup voltage	90 V / 120 V	
Nominal input voltage	360 V	
MPP voltage range	90 V – 540 V	
MPP voltage range for nominal power	285 V – 480 V	
No. of MPPTs	2	
Max. number of PV strings per MPPT	1 / 2	
Max. PV input current	12.5 A / 25 A	
Max. current for input connector	15 A / 30 A	15 A
Max. PV short-circuit current	15 A / 30 A	
Output (AC)		
AC output power	8000 VA	8300 VA
Max. AC output current	34.8 A	36.1 A
Nominal AC voltage	230 Vac	220 Vac / 240 Vac
AC voltage range	180 Vac – 276 Vac (this may vary with grid standards)	176 Vac – 276 Vac (this may vary with grid standards)
Nominal grid frequency	50Hz / 60Hz	60 Hz
Grid frequency range	45 Hz – 55 Hz / 55 Hz – 65 Hz (this may vary with grid standard s)	55 Hz–65 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 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	1 / 1	
Efficiency		
Max. efficiency / European efficiency	98.5 % / 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	Optional	Yes
Overvoltage protection	DC Type II / AC Type II	
General Data		
Dimensions (W*H*D)	360*390*148 mm	
Weight	15.5 kg	
Isolation method	Transformerless	
Ingress protection rating	IP65	
Power loss in night mode	< 1 W	
Operating ambient temperature	-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 / Communication	LCD / Wi-Fi	
PV connection type	MC4 (Max. 6mm²)	
AC connection type	Plug and play connector (Max. 6mm²)	
Compliance	IEC62109-1, IEC62109-2, IEC62116, IEC61727, EN 61000-6-2, EN 61 000-6-3, AS4777.2	IEC62109-1, IEC62109-2, IEC62116, IEC61727, EN 61000-6-2, EN 61 000-6-3, ABNT NBR 16149, ABNT NBR 16150
Compliance	Active & reactive power control, power ramp rate control	
Type designation	SG8K-D	SG8K3-D



SG3K/3K6/4K/4K6/5K/6K-D

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Residential String Inverter



HIGH YIELD

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



SMART MANAGEMENT

- Feature-rich online monitoring via App or Web
- Firmware updates & new monitoring features
- Gain energy flow with Sungrow smart meter



SAFE AND RELIABLE

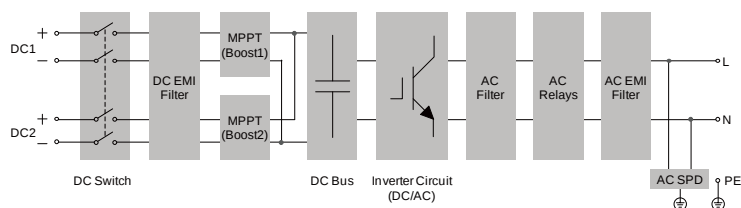
- Built-in surge arresters & RCD
- Cutting-edge technology ensures long life time
- High anti-corrosion rating at C5



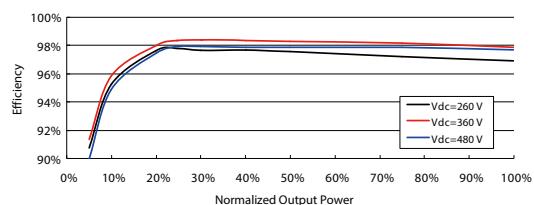
EASY INSTALLATION

- 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



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Type designation	SG3K-D	SG3K6-D	SG4K-D	SG4K6-D	SG5K-D	SG6K-D
Input (DC)						
Max. PV input voltage	600 V					
Min. PV input voltage / Startup voltage	90 / 120 V					
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	< 3 W					
Operating ambient temperature range	-25 °C to 60 °C (>45 °C derating)					
Allowable relative humidity	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 mm²)					
AC connection type	Plug and play connector (max. 6 mm²)					
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



SG2K-S/SG2K5-S/SG3K-S

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Residential String Inverter



HIGH YIELD

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



SMART MANAGEMENT

- Feature-rich online monitoring via App or Web
- Firmware updates & new monitoring features
- Gain energy flow with Sungrow smart meter



SAFE AND RELIABLE

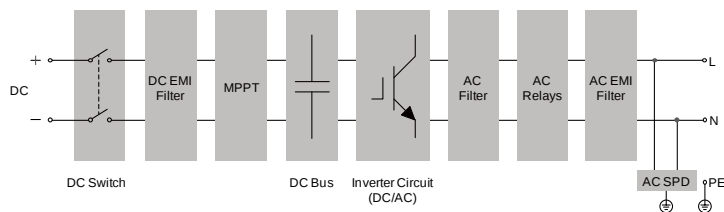
- Built-in surge arresters & RCD
- Cutting-edge technology ensures long life time
- High anti-corrosion rating at C5



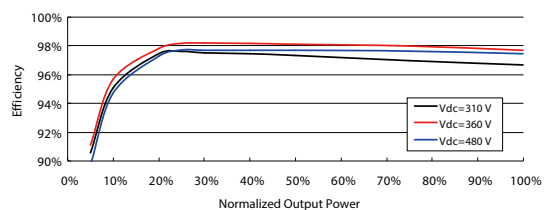
EASY INSTALLATION

- 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



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Type designation	SG2K-S	SG2K5-S	SG3K-S
Input (DC)			
Max. PV input voltage		600 V	
Min. PV input voltage / Startup voltage		90 / 120 V	
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 / European efficiency	98.2 % / 97.2 %	98.2 % / 97.5 %	98.2 % / 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		< 3 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



SH5.0/6.0/8.0/10RT New

SUNGROW
Clean power for all

Hybrid Inverter



FLEXIBLE APPLICATION

- 150~600V wide battery voltage range
- Supports parallel connection with full communication between inverters
- Provides 100% unbalance loads in backup mode



ENERGY INDEPENDENCE

- Seamless transition to backup mode for protection against power outages
- Fast charging/discharging to meet the demand of higher consumption and energy trading



SMART MANAGEMENT

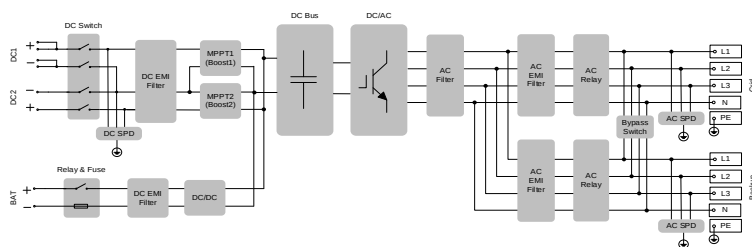
- High self-consumption with optimised built-in EMS
- Free online monitoring to enhance energy management for end user, installer and retailer
- Remote firmware update and customisable settings



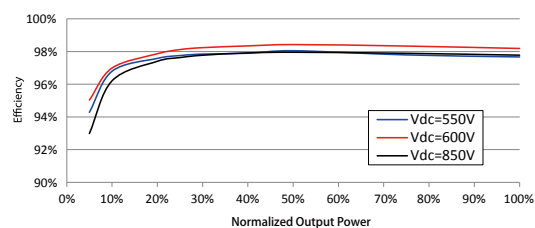
EASY INSTALLATION

- Unique push-in connectors for time-saving installation
- Touch free commissioning with smartphone
- Lightweight and compact

CIRCUIT DIAGRAM



EFFICIENCY CURVE (SH10RT)



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Type designation	SH5.0RT	SH6.0RT	SH8.0RT	SH10RT
PV Input				
Max. PV input power	6600 W	8000 W	10600 W	13300 W
Max. PV input voltage	1100 V	1100 V	1100 V	1100 V
Startup voltage	180	250	250	250
Nominal input voltage	600 V	600 V	600 V	600 V
MPP voltage range	150 V-1000 V	200V-1000 V	200V-1000 V	200 V-1000 V
MPP voltage range for nominal power	210 V-850 V	250 V-850 V	330 V-850 V	280 V-850 V
No. of MPPTs	2			
Max. number of PV strings per MPPT	1 / 1	1 / 1	1 / 1	1 / 2
Max. PV input current	25 A (12.5 A / 12.5 A)	25 A (12.5 A / 12.5 A)	25A (12.5 A / 12.5 A)	37.5 A (12.5 A / 25 A)
Max. current for input connector	16 A			
Short-circuit current of PV input	32 A (16 A / 16 A)	32 A (16 A / 16 A)	32A (16 A / 16 A)	48 A (16 A / 32 A)
AC Input and Output				
Nominal AC output power	5000 W	6000 W	8000 W	10000 W
Max. AC output apparent power	5000 VA	6000 VA	8000 VA	10000 VA
Nominal AC ouput current	7.3 A	8.7 A	11.6 A	14.5 A
Max. AC output current	8.5 A	10 A	13.5 A	17 A
Nominal AC voltage	3 / N / PE, 220 / 380 V; 230 / 400 V; 240 / 415 V			
AC voltage range	270-480 Vac (this may vary with grid standards)			
Nominal grid frequency	50 Hz / 60 Hz, 45-55 Hz			
Grid frequency range	55-65 Hz (this may vary with grid standards)			
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 o 0.8 underexcited / lagging)			
Protection				
LVRT	Yes			
Anti-islanding protection	Yes			
AC short circuit protection	Yes			
Leakage current protection	Yes			
DC switch (solar)	Yes			
DC fuse (battery)	Yes			
Overvoltage Protection	DC Type II / AC Type II			
Battery Data				
Battery type	Li-ion battery			
Battery voltage	150 V-600 V			
Max charge / discharge current	25 A / 25 A			
Max charge / discharge power	6600 W	8000 W	10600 W	10600 W
System Data				
Max. efficiency / European efficiency	98.0% / 97.2%	98.2% / 97.5%	98.4% / 97.9%	98.4% / 97.9%
Max. charge / discharge efficiency	98.5%			
Isolation method (solar) / (battery)	Transformerless / Transformerless			
Ingress protection rating	IP65			
Operating ambient temperature range	-25 °C- 60 °C (>45 °C derating)			
Allowable relative humidity range	0%~100%			
Cooling method	Natural convection			
Max. operating altitude	4000m (>2000m derating)			
Display	LED, Graphic LCD (Optional)			
Communication	RS485, Wi-Fi, Ethernet, 1 * Digital Output, 4 * Digital Input			
DC connection type	MC4 (PV) / Sunclix (Battery)			
AC connection type	Plug and play connector			
Compliance	IEC / EN 62109-1, IEC / EN 62109-2, IEC / EN 61000-3-11, IEC / EN 61000-3-12, EN 62477-1, VDE0126-1-1 / 4105, CEI 0-21, AS 4777.2, EN50438			
Mechanical Data				
Dimensions (W * H * D)	480 * 540 * 170 mm			
Mounting method	Wall-mounting bracket			
Weight	25 kg			
Backup Data				
Nominal voltage	220 Vac / 230 Vac / 240 Vac (±2 %)			
Frequency range	50 Hz / 60 Hz (±0.2 %)			
Total hamonic factor output voltage	2 % (full resistive load)			
Switch time to emergency mode	<20ms			
Nominal output power	5000 W / 5000 VA	6000 W / 6000 VA	8000 W / 8000 VA	10000 W / 10000 VA
Peak output power	6000 W / 6000 VA, 5 min	7200 W / 7200 VA, 5 min	12000 W / 12000 VA, 5 min	12000 W / 12000 VA, 5 min
	10000 W / 10000 VA, 10 s	10000 W / 10000 VA, 10 s		
Parallel operation	Yes			



SH3K6/SH4K6

Hybrid Inverter

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FLEXIBLE APPLICATION

- Convenient for new installation and retrofit
- Compatible with both lithium-ion and lead-acid batteries
- Energy trading ready with 3rd-party EMS to maximise ROI



SAFE AND RELIABLE

- Built-in surge arresters and residual current protection
- Durable finish with high anti-corrosion enclosure



SMART MANAGEMENT

- High self-consumption with optimised built-in EMS
- Free online monitoring to enhance energy management for end user, installer and retailer
- Remote firmware update and customisable settings



EASY INSTALLATION

- Custom-fit mounting plate with built-in level
- Fast and easy commissioning via front panel LCD or App
- Lightweight and compact

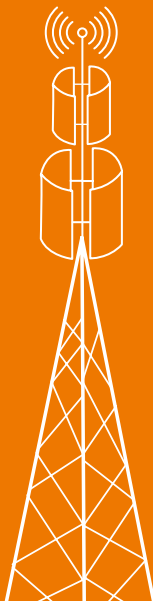


Type designation	SH3K6	SH4K6
PV Input Side Data		
Max. PV input power	6500 W	
Max. PV input voltage	600 V	
Startup voltage	125 V	
Nominal input voltage	360 V	
MPP voltage range	125 V – 560 V	
MPP voltage range for nominal power	180 V – 520 V	220 V – 520 V
No. of MPPTs	2	
Max. number of PV strings per MPPT	1 / 1	
Max. PV input current	22 A (11 A / 11 A)	
Max. current for input connector	12 A	
Short-circuit current of PV input	24 A (12 A / 12 A)	
AC Input and Output Data		
Nominal AC output power to grid	3680 W	4600 W
Max. AC output apparent power to grid	3680 VA	4600 VA
Max. AC input power from grid	3000 W	3000 W
Nominal AC ouput 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)	
THD (Total Harmonic Distortion)	< 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]	
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	
System Data		
Max. efficiency	> 97.7 %	
European efficiency	> 97.0 %	> 97.2 %
Max. charge / discharge efficiency	> 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	Plug and play connector	
Certification	VDE-AR-N-4105, DIN VDE0126-1-1, G83/2, G59/3, CEI 0-21, IEC 62109-1, IEC62109-2, EN 62477-1, EN 61000-6-1/-3	
Mechanical Data		
Dimensions (W * H * D)	457 mm * 515 mm * 170 mm	
Mounting method	Wall-mounting bracket	
Weight	22 kg	





Accessory & Monitoring



Sunbox

iSolarCloud

PVM1000

Smart Communication Box

EyeM4

E-Net

WiFi

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
- 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)
- PG Gland / MC4 terminal connector



QUALIFIED

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

Type designation	PVS-16MH	PVS-20MH	PVS-24MH
Parameters			
Max. PV string voltage		1500 V	
Max. PV string parallel inputs	16	20	24
Rated fuse current for each string (replaceable)		15 A / 20 A	
Switch disconnecter		400 A	
SPD		1500 Vdc Type II	
Input terminal type		PG Gland / MC4 terminal	
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)		930 * 730 * 260 mm	
Weight	38 kg	40 kg	42 kg
Switch-disconnector handle		Internal handle	
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	
RS485 Communication port		Yes	
Current and voltage monitoring for each string		Yes	
Optional Accessories			
Negative Grounding		Optional	
Monitoring for load switch state		Optional	



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

SUNGROW
Clean power for all

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

Type designation	PVS-8MH-DB	PVS-12MH-DB	PVS-16MH-DB
Parameters			
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	



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)

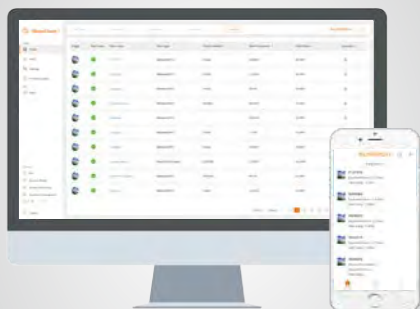


RELIABLE

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

Type designation	PVS-16M-DB
Parameters	
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





FLEXIBLE AND FRIENDLY

- Centralized power plant management, optimized OPEX
- Simple network infrastructure, fast platform deployment
- Flexible data access, Web portal and APP



SIMPLE AND EFFICIENT

- Full plant supervision via multi-dimensional analysis, automated reports
- Accurate positioning of faults, quick trouble shooting, real-time push of information, reducing time to resolve faults
- Parameter setting, firmware updates, IV curve diagnosis
- Support of plant maintenance by remote Web access of local data logger / SCADA



SAFE AND RELIABLE

- Hierarchical access management
- Cyber security and redundant data storage over the lifecycle of plants, certified data security
- Full log for trace and audit

Type designation	iSolarCloud
Monitoring Device	
Device type	Inverter, combiner box, meteo station, energy meter, transformer and other plant devices
Monitoring Capacity	More than 100 GW (scalable)
Data Collection	
Time interval	5 minutes
General Data	
Language	Chinese, English, Japanese, German, French, Spanish, Portuguese, Italian, Dutch, Korean
Data storage time	>25 years
Storage capability	>100PB
System reliability	99.99%
Minimum Web requirements	
Browser	IE11, Chrome 56, Safari 11
Resolution	1366 * 768, 1920 * 1080 recommended
Minimum Operating Environment for APP	
Minimum OS	Android 4.4, iOS 9.3
Resolution	1920 * 1080, 2001 * 1125, 1280 * 720



Smart Communication Box

COM100

SUNGROW

Clean power for all



FLEXIBLE NETWORKING

- Support of RS485, Ethernet, Optical Fiber Ethernet switch and WiFi communication
- Support of energy meter, meteo station, sensors and other equipment



CONVENIENT O&M

- Inverter batch parameter settings and firmware updates
- PV-Plant maintenance via remote Web access for optimized OPEX
- Active and reactive power control
- Local monitoring



EASY OPERATION

- Embedded Web portal, easy to commissioning
- Robust enclosure, easy to install



Type designation	COM100 (Utility)	COM100 (C&I)
Communication		
Max. number of devices	200	30
RS485 interface	6	3
Ethernet	2 * RJ45, 10 / 100 Mbps	1 * RJ45, 10 / 100 / 1000 Mbps
Digital input	16, Max. 24 VDC	5, Max. 24 VDC
Analog input	2, PT100 / PT1000 4, support 4 – 20 mA or 0–10 VDC	4, support 4 – 20 mA or 0–10 VDC
Fiber Ethernet Switch	2 Fiber ports and 6 Ethernet ports	/
Wireless communication		
4G communication	/	Yes
WiFi communication	/	Yes
Power supply		
AC input	110 VAC – 240 VAC (50 / 60 Hz)	100 VAC – 277 VAC (50 / 60 Hz)
Power consumption	Typ. 20 W, Max. 30 W	Typ. 20 W, Max. 30 W
Night light for maintenance	/	<1 W
Ambient conditions		
Operating Temperature	-20 °C – 60 °C	-30 °C – 60 °C
Storage Temperature	-30 °C – 70 °C	-40 °C – 80 °C
Relative air humidity	≤95 % (non-condensing)	≤95 % (non-condensing)
Elevation	≤3000 m	≤4000 m
Protection class	IP65	IP66
Mechanical parameters		
Dimensions (W * H * D)	570 * 790 * 90 mm	460 * 315 * 126 mm
Weight	32 kg	6 kg
Mounting type	Wall mounted, ground mounted	Wall mounted, outdoor and indoor
Box material	Metal	PC
Ordering information		
COM100A	The COM100A includes Logger3000, PLC, Ethernet Switch, SPD Apply to Global	
COM100D	The COM100D includes Logger1000A and support of 4G, WiFi wireless communication Apply to China, India, Malaysia	
COM100E	The COM100E includes Logger1000B and support of WiFi wireless communication Apply to Global	



Sungrow Local SCADA for PV plant consists of local monitoring hardware and software



SMART AND FLEXIBLE

- Insight integrated (monitoring software), monitoring of devices such as inverters, combiner boxes, transformers, power conversion systems
- Integrated fibre switch, convenient and flexible networking



SIMPLE AND EFFICIENT

- Applicable to 200 MW utility scale power plants
- Seamless connection to iSolarCloud and easy centralized management of power plants



SAFE AND RELIABLE

- Equipped with hardware firewall

Type designation	PVM1000
Monitoring system	
Server	IPC / Server
Workstation	Desktop computer
Monitoring software	Insight
Switch	
Number of optical fiber ports	4, 8, 16, or 24
Number of Ethernet ports	8, 16, or 20
Firewall	Optional
Power supply	
Power supply	200~240 VAC, 32 A, and 50 Hz
Ambient parameters	
Operating temperature	-20 °C~60 °C (IPC) / 10 °C ~ 35 °C (Server)
Operating humidity	≤95 % (25 °C)
Communication	
Communication medium networking method	Optical fiber, Ethernet bus / fiber ring
Communication protocol	IEC104 master / slave
Mechanical Parameters	
Dimensions (W * H * D)	600mm * 2000mm * 1000mm (Server)



SMART AND FLEXIBLE

- One-click access to iSolarCloud
- One module can manage up to 10 inverters for remote maintenance and control
- Plug and play, easy installation



CONVENIENT O&M

- Built-in Web server for monitoring and configuration, by PC or smartphone browser; no APP required
- Support of plant maintenance by remote Web access, optimized OPEX
- Support of local and remote parameter setting and firmware updates

Type designation	EyeM4
Communication	
Max. number of devices	10
LED display	LED × 3
Wireless communication	
WiFi communicatoin	WCDMA:B1, B8 802.11 b / g / n / ac HT20 / 40 / 80 MHz 2.4 GHz / 5 GHz
Power Supply	
DC input	5 VDC, 0.8 A
Power consumption	<4 W
Ambient conditions	
Operating Temperature	-30 °C ~ 60 °C
Relative air humidity	≤95 % (non-condensing)
Elevation	≤4000 m
Protection class	IP66
Mechanical parameters	
Dimensions (W * H * D)	48 mm * 130 mm * 36 mm
Mounting type	Plug and Play
Ordering information	
EyeM4C	Support of WiFi wireless communication Apply to Global



SMART AND FLEXIBLE

- Automatic network configuration with DHCP, transmission without configuration
- Stable data connection where wireless communication is not possible



SIMPLE AND EFFICIENT

- Support of remote operation and maintenance functions including remote firmware updates and parameter setting
- Plug and play, quick installation



SAFE AND RELIABLE

- Wired transmission, safe and reliable
- IP65, wide temperature range

Type designation	E-Net
Basic data	
Supported devices	Sungrow string inverters
Max. number of supported devices	1
LED display	LED × 3
Configuration	Built-in Web server
Communication	
RS485 interface	1
Ethernet	1×RJ45, 10/100 Mbps
Power supply	
Input voltage	5 VDC, 0.4 A
Power consumption	<2 W
Ambient conditions	
Operating temperature	-25 °C- 60 °C
Relative air humidity	≤95 % (non-condensing)
Elevation	≤4000 m
Protection class	IP65
Mechanical parameters	
Dimensions (W * H * D)	48 mm * 127 mm * 36 mm
Mounting type	Plug and Play





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

Type designation	WiFi
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 mm * 97 mm * 36 mm
Installation	Plug-in type

Global Reference



205 MW PV Plant Fresno, California, USA 🇺🇸



40 MW PV Plant Thailand 🇹🇭



30 MW PV Plant USA 🇺🇸

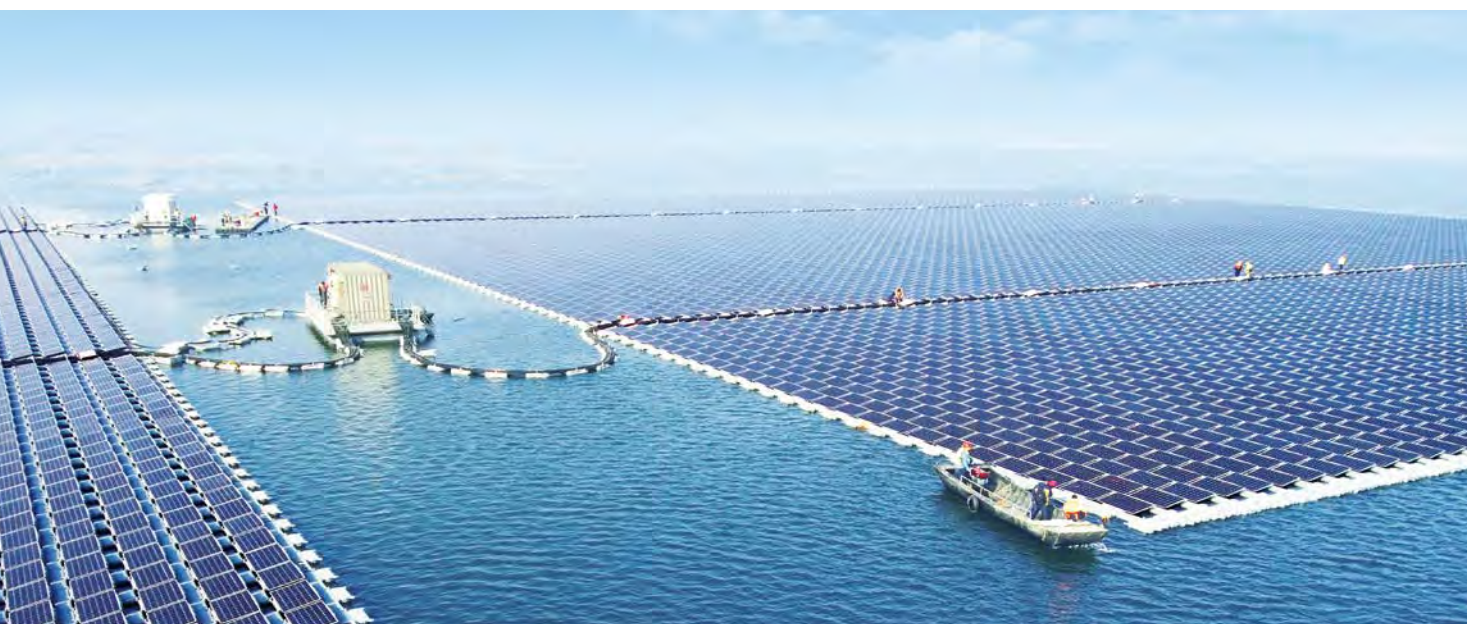




43MW PV Plant in Philippines



50 MW PV Plant India



190MW Floating PV Plant China





250MW PV Plant in Ninh Thuan, Vietnam 🇻🇳



25MW PV Plant in Argentina 🇦🇷



19.2MW PV Plant USA 🇺🇸



75MW PV Plant Thailand 🇹🇭



1.4MW PV Plant Vietnam 🇻🇳



15MW PV Plant Andijk Netherlands 🇳🇱



100 kW PV plant Japan 🇯🇵



3.15MW PV Plant Chile 🇨🇱



2.25MW PV Parking Structure FL USA 🇺🇸

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

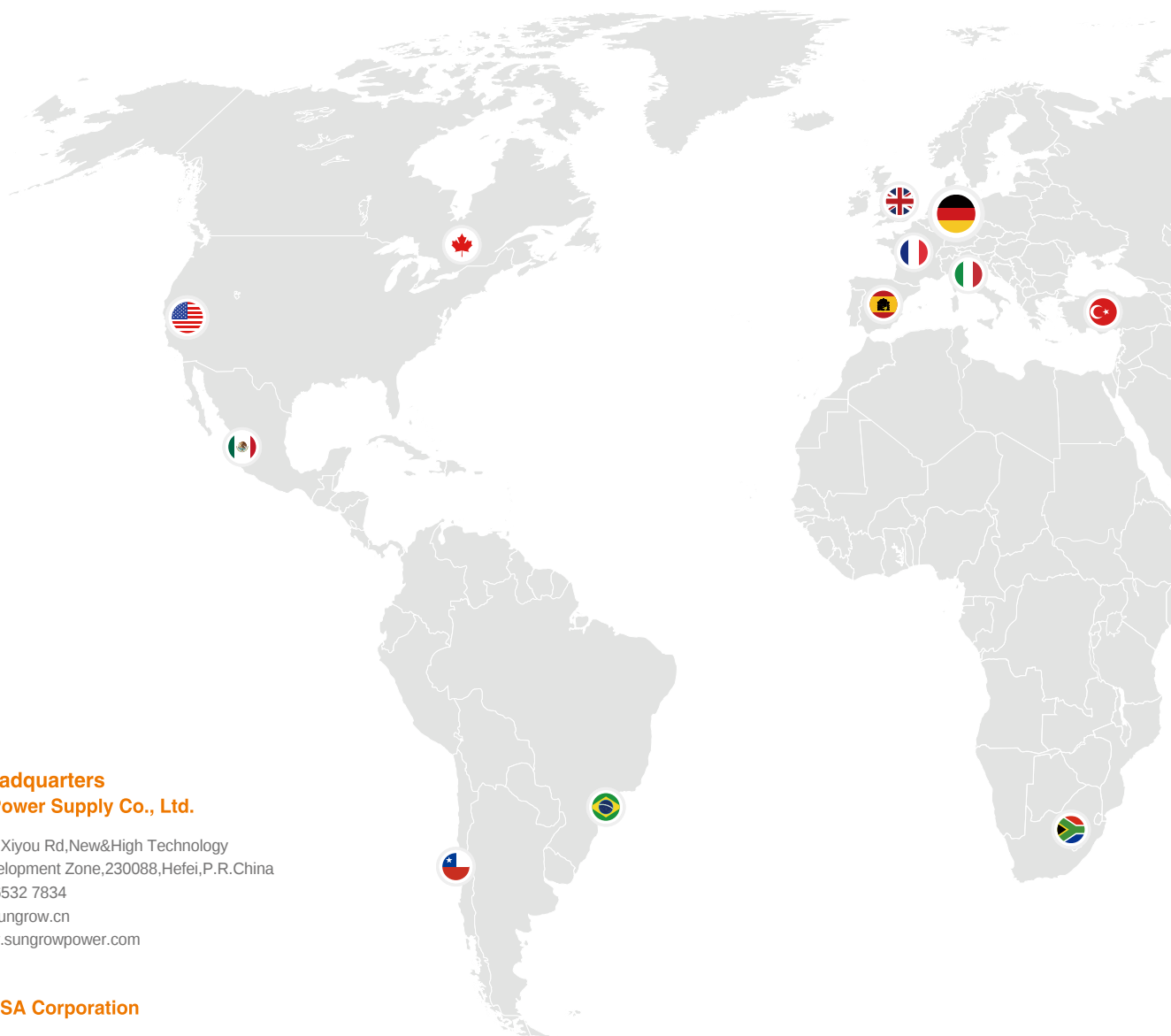
We provide customers with comprehensive, professional technical training and guidance by delivering the knowledge of power system and equipment's daily use and maintenance.



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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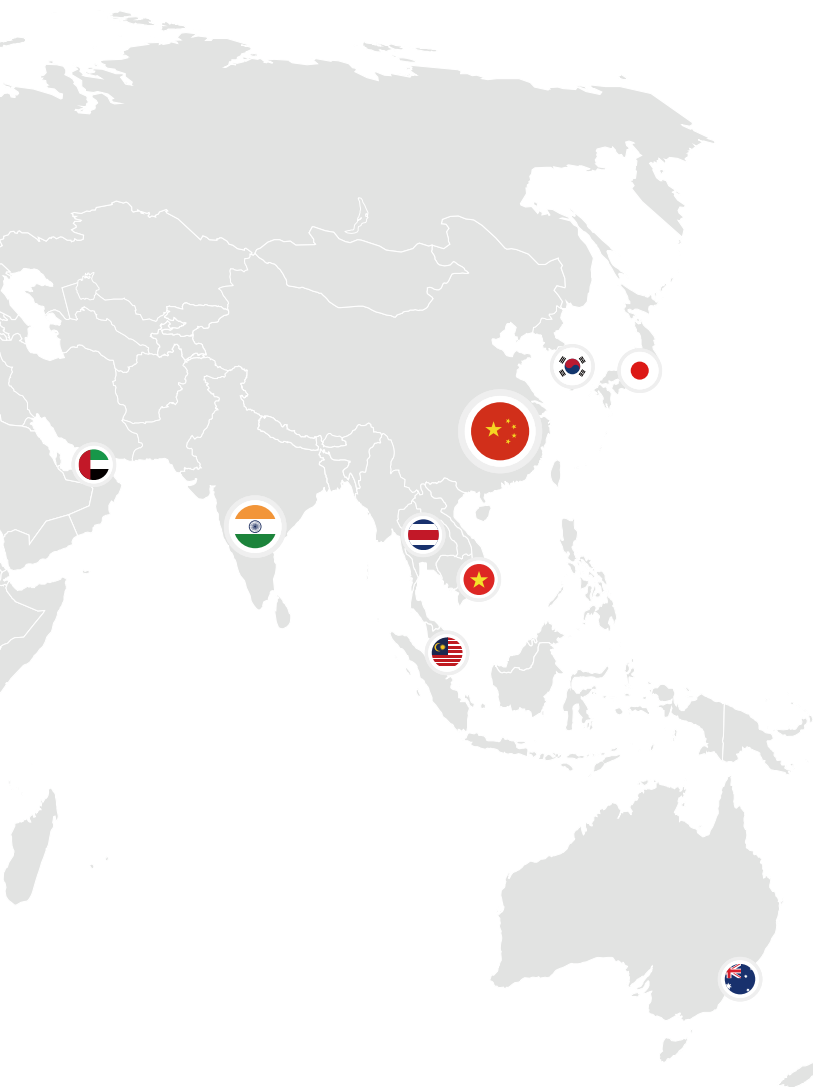
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PV GRID-CONNECTED INVERTERS

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