

# SG60KU-M

String Inverter



### High Yield

- Max. efficiency 98.9 %, CEC efficiency 98.5 %
- Long-term overload at 1.1 Pn
- Up to 4 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

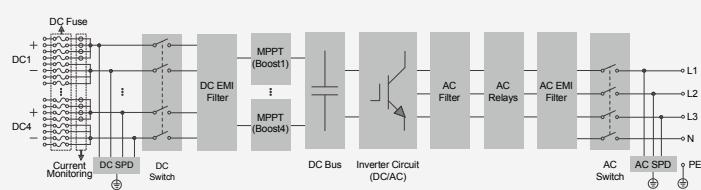
- Max. DC/AC ratio up to 1.5
- Integrated DC combiner box, DC/AC switch and DC/AC overvoltage protection



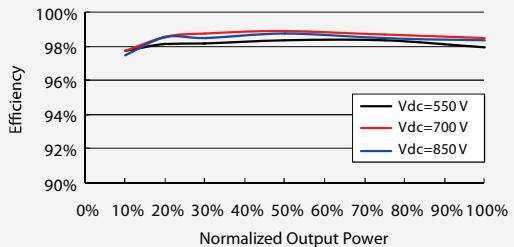
### Grid Support

- Compliance with standards: UL 1741, UL 1741 SA, IEEE 1547, IEEE 1547.1
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

### Circuit Diagram



### CEC Efficiency Curve



© 2017 Sungrow Power Supply Co., Ltd. All rights reserved.  
Subject to change without notice. Version#1.0

**Input (DC)**

	<b>SG60KU-M</b>
Max. PV input voltage	1000 V
Min. PV input voltage / Startup input voltage	300 V / 300 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. PV input current	112 A
Max. DC short-circuit current	200 A (50 A / 50 A / 50 A / 50 A)

**Output (AC)**

Nominal AC power (at 45 °C)	60000 W
Max. AC output power at PF=1 (at 45 °C)	66000 W
Max. AC apparent power (at 45 °C)	66000 VA
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 % 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**

Max. efficiency / CEC efficiency	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
DC fuse	Yes (positive and negative, 15 A)
PV string current monitoring	Yes
Arc fault circuit interrupter (AFCI)	Yes
Oversupply protection	DC Type II / AC Type II

**General Data**

Dimensions (W*H*D)	26.2" * 36.0" * 10.9" <b>665*915*276 mm</b>
Weight	154.3 lb <b>70 kg</b>
Isolation method	Transformerless
Degree of protection	NEMA 4X
Night power consumption	< 1 W
Operating ambient temperature range	-13 to 140 °F (> 113 °F derating) <b>-25 to 60 °C (&gt; 45 °C derating)</b>
Allowable relative humidity range (non-condensing)	0 – 100 %
Cooling method	Smart forced air cooling
Max. operating altitude	13123 ft (> 9843 ft derating) <b>4000 m (&gt; 3000 m derating)</b>
Display / Communication	Graphic LCD / RS485, Ethernet
DC connection type	Screw clamp terminal (10 AWG, Cu or Al )
AC connection type	Screw clamp terminal (3/0 AWG, Cu or Al)
Compliance	UL 1741, UL 1741 SA, IEEE 1547, IEEE 1547.1, CSA C22.2 No.107.1-01
Grid support	LVRT, HVRT, active & reactive power control and power ramp rate control