

# SG60KU-M

String Inverter For North America



## Efficient and Flexible

- High flexibility for complex configurations due to 4 MPP trackers and a wide input voltage range
- High yields due to efficiency up to 98.9% and CEC efficiency of 98.5%
- Output power up to 66KVA/66KW at power factor of 1
- Can be installed at any angle



## Grid-friendly

- Active power continuously adjustable (0~100%)
- Fulfill a variety of reactive power adjustment requirements with power factor 0.8 leading ~ 0.8 lagging
- Integrated LVRT and OVRT function
- Includes RS-485 and Ethernet interface, compatible with all common monitoring systems



## Intelligent Design

- Integrated combiner box: 16 x Screw terminal pairs with DC string fuses (both positive and negative), Type II overvoltage protection (both DC and AC), DC and AC switch, more safety and lower the system cost
- Integrated string detection function and arc fault detection



## Reliable

- Product certification: UL IEEE 1574 IEEE 1574.1 CSA C22.2#107.1-01-2001,FCC Part 15 Sub-part B Class B Limits
- Manufacturer certification: ISO 9001,ISO 14001,OHSAS 18000



**DC**

Maximum PV Input Voltage	1000V
Start-Up Voltage	300V
Stop Voltage	280V
MPPT Voltage Range	300 - 950V
MPPT Voltage Range for Nominal Power	550 - 850V
String Fuses	Positive and Negative
Number of MPPTs	4
Maximum Number of DC Inputs	16
Maximum DC short circuit current	200A
Maximum Current for Input Connector	12A
Maximum Cable Size	10AWG, Cu or Al
AFCI	Yes
DC Switch	Yes
Insulation Detection	Yes
DC Surge Arrestor	Type II DIN Rail Surge Arrestor (40kA)

**AC**

Nominal AC Output Power	60000W
Maximum AC Output Apparent Power	66000VA
Maximum AC Output Current	80A
Nominal AC Voltage	3ø/3W or 4W+ Ground, 277/480Vac
AC Voltage Range	422 - 528Vac
Nominal Grid Frequency	60Hz
Grid Frequency Range	55-65Hz
THD	<3% (Nominal Power)
DC Current Injection	<0.5% In
Power Factor	>0.99 @ Default Value at Nominal Power, (Adj. 0.8 Leading ~0.8 Lagging)
Maximum Cable Size	2/0AWG, Cu or Al
AC Surge Arrestor	Type II DIN Rail Surge Arrestor

**System Data**

Maximum Efficiency	98.90%
CEC Efficiency	98.50%
Isolation Method	Transformerless
Ingress Protection Rating	NEMA 4X
Tare Losses	<1W
Operating Ambient Temperature Range	-25°C to 60°C (>45°C derating) -13°F to 140°F (>122°F derating)
Allowable Relative Humidity Range	0 - 100%
Cooling Method	Smart Forced Air Cooling
Max. Operating Altitude	4000m(>3000m derating) 13000ft(>9800ft derating)
Display	Graphic LCD
Communication	RS485 / Ethernet
DC Connection Type	Screw Terminals
AC Connection Type	Screw Clamp Terminal
Certification	cCSAus
Safety and EMC Standard	UL1741, IEEE 1547, IEEE1547.1, CSA C22.2 107.1-01-2001, FCC Part 15 Sub-part B Class B Limits

**Protection**

Anti-Islanding Protection	Yes
Low Voltage Ride Through	Yes
DC Reverse Connection Protection	Yes
AC Short Circuit Protection	Yes
Leakage Current Protection	Yes
AC Switch	Yes

**Mechanical Data**

Dimensions (WxHxD)	665*915*276mm 26.18" * 36.02" *10.87"
Mounting Method	Wall bracket
Weight	70kg 154lbs

**Communication**

RS485	Standard
Ethernet	Standard
I/O Dry Contact	Standard
Protocol	Modbus

**Efficiency Curve**

