

Designed for 20+ years of operating life
NEMA4X Electronics Cabinet



98.90% Peak Efficiency, 98.5% CEC Efficiency
Adaptive Edge Quad MPPT® for Fast Tracking



High Power Density, Small Equipment Footprint
DC/AC Disconnect
480/277Vac, Perfect for Commercial Applications
NEC 2014 Compliant



Continuous Active Power Control
Advanced Grid Support Functionality



KEY HIGHLIGHTS:

- With over 14GW deployed in more than 50 countries since 1997, we've learned some things about how to build great products. By working with our partners and listening to our customers, we've engineered and manufactured our inverters to be robust, reliable, providing maximum uptime.
- The SG60KU-M transformerless inverter features best-in-class peak efficiency of 98.90%. Employing a patented thermal management system, the inverter is able to operate from -13°F to 140°F (-25°C to 60°C), and up to 13,000' (4,000 m).
- The SG60KU-M is 1,000Vdc, includes 4 MPPT's, is extremely light weight, and can be mounted vertically as well as horizontally, giving maximum design flexibility and lowering installation costs.
- Built for the grid, Sungrow inverters meet grid requirements around the world. Full remote and local power curtailment, PF, OVRT, LVRT, FRT controls via ModBus & Ethernet.

CERTIFICATIONS

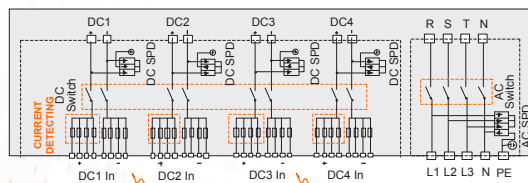
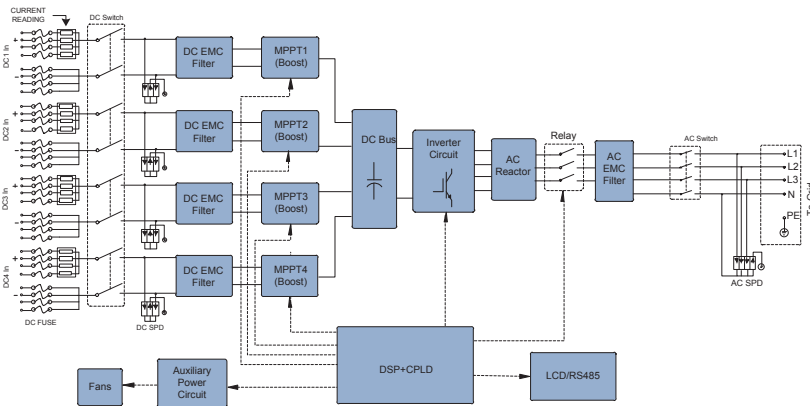
- UL1741, UL1699B, IEEE1547, CSA C22.2 #107.1-01, FCC Class A

WARRANTY AND SERVICES

- 10 Year Standard Warranty
- Extended Warranty: 15, 20 years
- Preventive Maintenance Plan
- 99% Up Time Guarantee
- Commissioning Services
- Systems Design Services
- Sungrow Certified Training Program

MONITORING OPTIONS

- Data Acquisition: SolarInfo Logger®
- Web Based Monitoring: SolarInfo Bank® website
- Open Communication Protocol: ModBus
- Compatible with major monitoring service providers
- Ethernet



Sungrow USA Corporation

47751 Fremont Blvd.
Fremont, CA 94538
tel: 1.510.656.1259
email: sales@sungrow.ca
web: www.sungrow.ca

Sungrow Canada Inc.

895 Edgeley Blvd. | Vaughan, ON L4K 4V9
tel: 1.855.760.8618 | fax: 1.905.760.1158
email for sales: info@sungrow.ca
email for post sales: service@sungrow.ca
web: www.sungrow.ca



SG60KU-M

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	480/277Vac
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/OAWG, Cu or Al
AC Surge Arrestor	Type II DIN Rail Surge Arrestor

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

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 (>50°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	13000ft (4000m), Derated > 9800ft (3000m)
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

MECHANICAL	
Dimensions (W×H×D)	665mm X 915mm X 276mm (26.18" X 36.02" X 10.87")
Mounting Method	Wall bracket
Weight	70kg (154lbs)

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