

NEW

SG 60KU



Efficient and flexible

- String inverter up to maximum power 63.36kW and:
 - Max. efficiency up to 99% (CEC efficiency = 98.5%)
 - Maximal power density (63.36kVA / 55kg)
- Output power up to 63.36kVA / 63.36kW at power factor of 1



Grid-friendly

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



Intelligent design

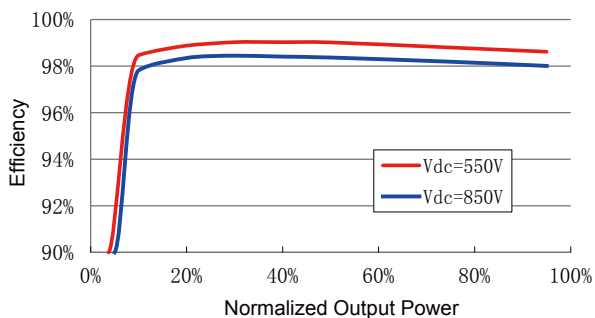
- Integrated combiner box: 8 x H4 connector pairs with DC string fuses (both positive and negative), Type II overvoltage protection (both DC and AC), DC and AC switch, more safety and lower the system cost
- Integrated string detection function and arc fault detection



Reliable

- Product certification: UL 1741, IEEE 1547 IEEE 1547.1, CSA C22.2#107.1-01-2001, FCC Part 15 Sub-part B Class B Limits
- Manufacturer certification: ISO 9001, ISO 14001, OHSAS 18000

Efficiency Curve



Input Side Data

220/380Vac

Max. PV input power	65000W
Max. PV input voltage	1000V
Start-up voltage (Voc)	620V
Stop Voltage	540
MPP voltage range	550~950V
MPP voltage range for nominal power	550~850V
No. of MPPTs	1
Max. number of PV strings per MPPT	8
String Fuse	Positive and Negative
Max. PV operating current	120A
maximum DC short circuit current	200A
Max. current for input connector	25A
Arc Flash Detection	Standard
DC Disconnect	Standard
Insulation Detection	Yes
DC Surge Arrestor	Type II DIN rail surge arrester

Output Side Data

Nominal AC output power	60000W
Max AC output power (PF=1)	63360W
Max. AC output apparent power	63360VA
Max. AC output current	96A
Nominal AC voltage	3Ø/3W, 220/380Vac
AC voltage range	295~456Vac
Nominal grid frequency	60Hz
Grid frequency range	55~ 65Hz
THD	<3% (Nominal power)
DC current injection	<0.5%In
Power Factor@FL	>0.99@default value at nominal power
Power Factor Range	0.8LG-0.8LD
AC Maximum Cable Size	0AWG, Cu or Al
AC Surge Arrestor	Type II DIN rail surge arrester
AC Leakage Current Detection	Yes
AC Disconnect	Yes

Protection

Anti-islanding protection	Yes
Low Voltage Ride Through	Standard
DC reverse connection protection	Yes
AC short circuit protection	Yes

Mechanical Data

Dimensions (W*H*D)	634*959*267mm	25*37.8*10.5inch
Mounting method	Wall bracket	
Weight	55kg (121lbs)	

System Data

Max. efficiency	99.00%	RS485	Standard
CEC efficiency	98.50%	Ethernet	Standard
Topology	Transformerless	I/O dry contact	Standard
protection rating	NEMA4X	Protocol	Modbus
Night power consumption	<1W		
Operating ambient temperature range	-25~60°C (>50°C derating)		-13...+140°F (>122°F derating)
Allowable relative humidity range	0~100%		
Cooling method	Smart forced air cooling		
Noise(dB)	<55dB		
Max. operating altitude	4000m (>3000m derating)		13,000ft (>9,800ft derating)
Display	Graphic LCD		
DC connection type	MC4		
AC connection type	Screw Clamp terminal		
Certification	cCSAus		
Safety and EMC Standard	UL 1741, IEEE 1547, IEEE1547.1, CSA C22.2#107.1-01-2001, FCC Part 15 Sub-part B, Class B Limits		

Communication

Circuit Diagram

