

# SG30 / 36KU

String Inverter



## Flexible

- Continuous active power control
- Reactive power control with power factor 0.8 leading - 0.8 lagging
- Includes RS-485 interface, compatible with all common monitoring systems



## Secured Yield

- High yields due to efficiency up to 98.5% and CEC efficiency of 98.0%
- Dual MPP trackers control



## Intelligent Design

- Integrated combiner box: 10 x Screw terminal pairs with DC string fuses, Type II overvoltage protection and DC switch, more safety and lower the system cost
- Can be wall-mounted without lifting equipment, weight 65kg
- Can be mounted vertically as well as horizontally, giving maximum design flexibility and lowering installation costs



## Reliable

- Product certification: cCSAus, UL 1741, IEEE 1547, IEEE1547.1, 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	SG30KU	SG36KU
Maximum DC Input Voltage	1000Vdc	
MPPT Range (full load)	480 - 850Vdc	560 - 850Vdc
MPPT Range	280 - 950Vdc	
Number of MPPTs	2	
Maximum Short Circuit Current (Isc)	40A per MPPT	
Start-Up Voltage	300Vdc	
Stop Voltage	<280Vdc	
Number of DC Inputs	10	
String Fuses	Positive and Negative	
DC Surge Arrester	Type III surge arrester (Optional Type II DIN rail surge arrester)	
DC Termination Method	Screw Terminals	
Maximum Cable Size	10AWG, Cu	
AFCI	Yes	
DC Disconnect	Yes	
Insulation Detection	Yes	

AC	SG30KU	SG36KU
Rated AC Power	30000W	36000W
Maximum AC Output Apparent Power	33240VA	39800VA
AC Nominal Voltage	277Vac / 480Vac	
Grid Voltage Range	422 - 528Vac	
Frequency	60Hz	
Frequency Range	57Hz - 63Hz	
AC Output Configuration	3Ø / 3W or 4W + Ground	
Tare Losses	<1W	
THD	<3%(at full load)	
Power Factor	>0.99(at full load)	
Power Factor Range	0.8 leading - 0.8 lagging, (0.9 leading - 0.9 lagging, at full power)	
Maximum Output Current	40A	48A
AC Termination Method	Spring Clamp Terminal	
Maximum Cable Size	#4AWG, Cu or Al	
AC Surge Arrester	Type III surge arrester (Optional Type II DIN rail surge arrester)	
AC Leakage Current Detection	Yes	
AC Disconnect	Optional	

**Mechanical and environmental**

Enclosure	NEMA 4X Electronics
Installation Feature	Separate Wiring box and Electronics box
Cable Entrance	Plastic Threaded Plug
Weight	143lb <b>65kg</b>
Relative Humidity	0 - 100%
Noise (dB)	<55dB
Operating Altitude	13123ft (>9843ft derating) <b>4000m(&gt;3000m derating)</b>
Cooling Method	Smart Forced Air Cooling
Dimensions (W*H*D)	25"*34.6"*9.8" <b>622*880*250mm</b>

**Performance**

Maximum Efficiency	98.5%
CEC Efficiency	98.00%
Operating Temperature	-13 °F to 140 °F <b>-25°C to 60°C</b>
Transformer / Transformerless	Transformerless
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, UL 1998

**Protection**

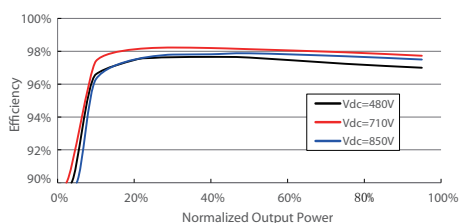
Anti-Islanding	Yes
Low Voltage Ride Through	Standard
DC Arc-Fault Circuit Protection	Certified to UL 1699B

**Communication**

RS485	Standard
I/O Dry Contact Protocol	Standard
	Modbus

**Efficiency Curve**

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