SG3.0/3.6/4.0RS

Suitable for 50Hz / 60Hz grid, could be used in Asia, Africa,South America, Australia and Europe. Available for hand installation, no need for lifting machinery assistance

HIGH YIELD

- Compatible with high power PV modules and bifacial modules
- Lower startup & wider MPPT voltage range
- Built-in smart PID Zero function

SAFE AND RELIABLE

- Integrated arc fault circuit interrupter
- Built-in Type II DC&AC SPD
- Corrosion protection rating at C5

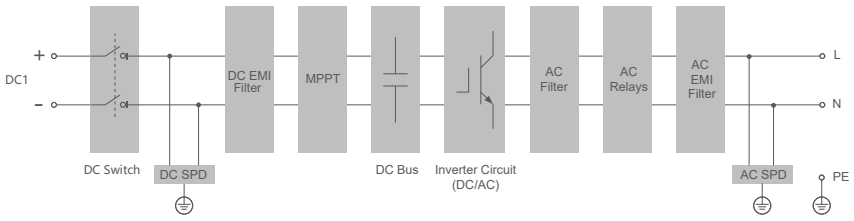
USER FRIENDLY SETUP

- Plug and play installation
- One-click access to iSolarCloud monitoring platform
- Light and compact with optimized heat dissipation design

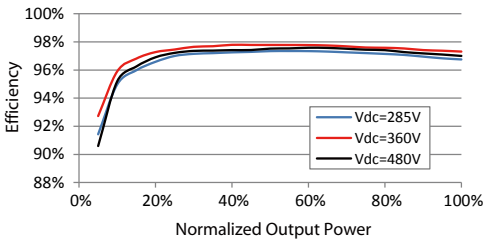
SMART MANAGEMENT

- Real time data (10 seconds refresh sample)
- 24/7 live online monitoring and with integrated display
- Online IV curve scan and diagnosis

CIRCUIT DIAGRAM



EFFICIENCY CURVE (SG3.0RS)



© 2023 Sungrow Power Supply Co., Ltd. All rights reserved. Subject to change without notice. Version 12

SUNGROW
Clean power for all

Type designation	SG3.0RS	SG3.6RS	SG4.0RS
Input (DC)			
Recommended max. PV input power	4.5 kWp	5.4 kWp	6 kWp
Max. PV input voltage	600 V		
Min. operating PV voltage / Start-up input voltage	40 V / 50 V		
Rated PV input voltage	360 V		
MPP voltage range	40 V – 560 V		
No. of independent MPP inputs	2		
Default No. of PV strings per MPPT	1		
Max. PV input current	32 A (16 A / 16 A)		
Max. DC short-circuit current	40 A (20 A / 20 A)		
Output (AC)			
Rated AC output power	3000 W	3680 W	4000 W
Max. AC Output power	3000 VA	3680 VA	4000 VA
Rated AC output current (at 230 V)	13.1 A	16 A	17.4 A
Max. AC output current	13.7 A	16 A	18.2 A
Rated AC voltage	220 V / 230 V / 240 V		
AC voltage range	154 V - 276 V		
Rated grid frequency / Grid frequency range	50 Hz / 45 - 55 Hz, 60 Hz / 55 - 65 Hz		
Harmonic (THD)	< 3 % (at rated power)		
Power factor at rated power / Adjustable power factor	> 0.99 / 0.8 leading - 0.8 lagging		
Feed-in phases / Connection phases	1 / 1		
Efficiency			
Max. efficiency / European efficiency	97.9 % / 97.0 %	97.9 % / 97.0 %	97.9 % / 97.2 %
Protection			
Grid monitoring	Yes		
DC reverse polarity protection	Yes		
AC short-circuit protection	Yes		
Leakage current protection	Yes		
Surge Protection	DC type II / AC type II		
DC switch	Yes		
PV string current monitoring	Yes		
Arc fault circuit interrupter (AFCI)	Yes		
PID Zero function	Yes		
Optimizer compatibility *	Optional		
General Data			
Dimensions (W * H * D)	410 mm * 270 mm * 150 mm		
Weight	10 kg		
Mounting method	Wall-mounting bracket		
Topology	Transformerless		
Degree of protection	IP65		
Operating ambient temperature range	-25 ℃ to 60 ℃		
Allowable relative humidity range (non-condensing)	0 % - 100 %		
Cooling method	Natural cooling		
Max. operating altitude	4000 m		
Display	LED digital display & LED indicator		
Communication	Ethernet / WLAN / RS485 / DI (Ripple control & DRM)		
DC connection type	MC4 (Max. 6 mm^2)		
AC connection type	Plug and play connector (Max. 6 mm^2)		
Grid compliance	IEC / EN62109-1/2, IEC / EN62116, IEC / EN61727, IEC / EN61000-6-2/3, EN50549-1, AS4777.2, ABNT NBR 16149, ABNT NBR 16150, UNE 217002:2020, NTS V2 TypeA, CEI 0-21:2020, VDE0126-1-1/A1 (VFR-2019), UTE C15-712, C10/11, G98/G99,		
Grid Support	Active & reactive power control and power ramp rate control		

* For optimizer compatbility, please consult Sungrow before placing an oder

© 2023 Sungrow Power Supply Co., Ltd. All rights reserved. Subject to change without notice. Version 12