

SG8.0RS-L

Single-MPPT String Inverter for 600 Vdc System



☀️ 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

- Built-in Type II DC & AC SPD
- IP65, indoor & outdoor installation

💡 USER FRIENDLY SETUP

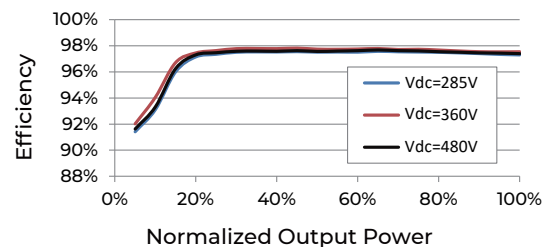
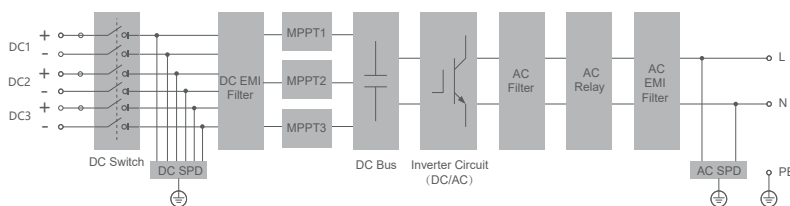
- Plug and play installation
- One-click access to iSolarCloud monitoring platform
- Light and compact with optimized heat dissipation design

⚙️ SMART MANAGEMENT

- Real time data (10 seconds refresh sample)
- Remote firmware updates

CIRCUIT DIAGRAM

EFFICIENCY CURVE (SG8.0RS-L)



Type designation	SG8.0RS-L
Input (DC)	
Recommended max. PV input power	12 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	1/2
Max. PV input current	48 A (16 A / 32 A)
Max. DC short-circuit current	60 A (20 A / 40 A)
Output (AC)	
Rated AC output power	8000 W
Max. AC Output power	8000 VA
Rated AC output current (at 220 V)	36.4 A
Max. AC output current	36.4 A
Rated AC voltage	220 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	97.8 % / 97.3 %
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
PID Zero function	Yes
General Data	
Dimensions (W * H * D)	525 mm * 365 mm * 170 mm
Weight	18 kg
Mounting method	Wall-mounting bracket
Topology	Transformerless
Degree of protection	IP65
Operating ambient temperature range	-25 °C - 60 °C
Allowable relative humidity range (non-condensing)	0 - 100 %
Cooling method	Natural cooling
Max. operating altitude	4000 m
Display	LED digital display & LED indicator
Communication	WLAN
DC connection type	MC4 Compatible Connector (Max. 6 mm ²)
AC connection type	OT Terminal (Max. 16 mm ²)
Grid compliance	ABNT NBR 16150, PORTARIA N° 140, DE 21 DE MARÇO DE 2022
Grid Support	Active & reactive power control and power ramp rate control