SG5.0RT/SG7.0RT/SG10RT/ SG15RT/SG20RT New



Multi-MPPT String Inverter for 1000 Vdc System



HIGH YIELD

- Lower startup & wider MPPT voltage
- · Compatible with bifacial modules
- · Built-in PID recovery function

SAFE AND DURABLE

- Quick arc fault circuit interrupter
- Build-in Type II DC & AC SPD
- High anti-corrosion rating at C5

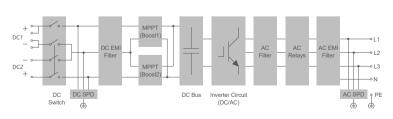
SMART MANAGEMENT

- Smart IV curve scanning
- 24/7 Live monitoring
- · Over-the-air firmware updates

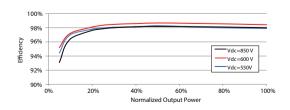
EASY AND USER FRIENDLY

- 18 kg compact design
- Unique push-in connectors
- · Fast and easy commissioning via App

CIRCUIT DIAGRAM



EFFICIENCY CURVE





Type designation	SG5.0RT	SG7.0RT	SG10RT	SG15RT	SG20RT	
Input (DC)						
Recommended max. PV input power	7.5 kW	10.5 kW	15 kW	22.5kW	30 kW	
Max. PV input voltage			1100 V			
Min. PV input voltage/Start-up input voltage			180 V			
Nominal input voltage			600 V			
MPP voltage range			160 V – 1000 V			
No. of independent MPP inputs			2			
No. of PV strings per MPPT	1/1	2/1	2/1	2/2	2/2	
Max. PV input current	25 A (12.5 A/12.5 A)	37.5 A (25 A / 12.5 A)	37.5 A (25 A / 12.5 A)	50 A (25 A / 25 A)	50 A (25 A / 25 A)	
Max. current for input connector	,	. , ,	30A			
Max. DC short-circuit current	32 A (16 A / 16 A)	48 A (32 A / 16 A)	48 A (32 A / 16 A)	64 A (32 A / 32 A)	64 A (32 A / 32 A)	
Output (AC)		, ,		, ,	, ,	
Nominal AC power (@230 V, 50 Hz)	5000 W	7000 W**	10000 W	15000 W	20000 W	
Max. AC output power	5500 VA*	7700 VA**	11000 VA*	16500 VA*	22000 VA*	
Max. AC output current	8.3 A	11.7 A	16.7 A	25 A	31.9 A	
	0.5 A		/ N / PE, 220 / 380 V		31.3 7	
Nominal AC voltage						
	3 / N / PE, 230 / 400 V 3 / N / PE, 240 / 415 V					
AC voltage range		3				
AC Voltage larige	180 V – 276 V					
Nominal grid frequency/Grid frequency range	50 Hz / 45 – 55 Hz					
	60 Hz / 55 – 65 Hz					
Harmonic(THD)	<3 % (at nominal power)					
Power factor at nominal power /	>0.99 / 0.8 leading – 0.8 lagging					
Adjustable power factor						
Feed-in phases / AC connection			3/3			
Efficiency						
Max. efficiency	98.40%	98.40%	98.50%	98.50%	98.50%	
European efficiency	97.40%	97.70%	97.90%	98.10%	98.10%	
Protection						
Grid monitoring			Yes			
DC reverse connection protection	Yes					
AC short-circuit protection	Yes					
Leakage current protection	Yes					
Surge Protection	DC Type II / AC Type II					
DC switch	Yes					
Arc fault circuit interrupter (AFCI)	Yes					
PID recovery function			Yes			
General Data						
Dimensions (W*H*D)		7	70 * 480 * 195 mm			
Mounting method	Wall-mounting bracket					
Weight	18 kg 18 kg 18 kg 21 kg 21 kg					
	10 kg	10 kg	Transformerless	21 kg	21 kg	
Topology	IP65					
Degree of protection	-25 °C to 60 °C					
Operating ambient temperature range						
Allowable relative humidity range	NI=+	Nietowel P	0% – 100%		C	
Cooling postbook	Natural cooling Natural cooling Smart forced air cooling Smart forced air cool					
Cooling method		4000 m (> 2000 m derating)				
Max. operating altitude	75 15 (1)		,	(E.ID.())	/ F ! F / · · ·	
Max. operating altitude Noise(Typical)	35dB (A)	35dB (A)	35dB (A)	45dB (A)	45dB (A)	
Max. operating altitude Noise(Typical) Display	35dB (A)	35dB (A)	35dB (A) LED	. ,	45dB (A)	
Max. operating altitude Noise(Typical) Display Communication	35dB (A)	35dB (A)	35dB (A) LED Ethernet, RS485, D	. ,	45dB (A)	
Cooling method Max. operating altitude Noise(Typical) Display Communication DC connection type	35dB (A)	35dB (A)	35dB (A) LED	. ,	45dB (A)	
Max. operating altitude Noise(Typical) Display Communication	35dB (A)	35dB (A)	35dB (A) LED Ethernet, RS485, D	. ,	45dB (A)	

^{*:} For Australia & Belgium& Germany Max. AC output power: SG5.0RT is 5000VA, SG10RT is 10000VA, SG15RT is 15000VA, SG20RT is 20000VA,

^{**:} For Australia, 6999W, 6999 VA













