



S6-GR1P(1-3)K-M

Single Phase | Grid-Tied Inverters

- Max. efficiency 97.5%
- AFCI protection, proactively reduces fire risk
- Wide voltage range and low startup voltage
- 24-hour load consumption monitoring
- Supports export power control
- Adaptive weak grid

INDIA

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DATASHEET

S6-GR1P(1-3)K-M

Models	1K	2K	3K
Input DC			
Recommended max. PV power	1.5 kW	3 kW	4.5 kW
Max. input voltage		550 V	
Rated voltage		330 V	
Start-up voltage	60 V	90 V	
MPPT voltage range	50 - 500 V	80 - 500 V	
Max. input current		14 A	
Max. short circuit current		22 A	
MPPT number / Max. input strings number		1 / 1	
Output AC			
Rated output power	1 kW	2 kW	3 kW
Max. apparent output power	1.1 kVA	2.2 kVA	3.3 kVA
Max. output power	1.1 kW	2.2 kW	3.3 kW
Rated grid voltage		1/N/PE, 220 V / 230 V	
Rated grid frequency		50 Hz / 60 Hz	
Rated grid output current	4.5 A / 4.3 A	9.1 A / 8.7 A	13.6 A / 13 A
Max. output current	5.2 A	10.5 A	15.7 A
Power factor		> 0.99 (0.8 leading - 0.8 lagging)	
THDi		< 3%	
DC injection current		< 0.5% In	
Efficiency			
Max. efficiency		97.5%	
EU efficiency		97.0%	
Protection			
DC reverse-polarity protection		Yes	
Short circuit protection		Yes	
Insulation resistance monitoring		Yes	
Residual current detection		Yes	
Output over current protection		Yes	
Surge protection		T3 (DC), T2 (AC)	
Grid monitoring		Yes	
Anti-islanding protection		Yes	
Temperature protection		Yes	
Multi peak scan		Yes	
Integrated AFCI		Yes ⁽¹⁾	
Integrated DC switch		Optional	
General Data			
Dimensions (W × H × D)		310 × 373 × 160 mm	
Weight	7.1kg	7.4 kg	
Topology		Transformerless	
Self-consumption (night)		< 1 W	
Operating ambient temperature range		- 25 ~ +60°C	
Relative humidity		0 - 100%	
Ingress protection		IP66	
Noise emission (typical)		< 20 dB(A)	
Cooling concept		Natural cooling	
Max. operation altitude		4000 m	
Grid connection standard	IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169/IS 16221(BIS)		
Safety / EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4		
Features			
DC connection	MC4 connector		
AC connection	Quick connection plug		
Display	LCD		
Communication	RS485, Optional: S3-WiFi-ST, S3-GRPS-ST		

(1) Activation required.