



2.5-6K

Grid-Tied Inverters

S6-GR1P(2.5-6)K-S(21A)

2 MPPT | 21A per MPPT



- 21 A PV input current – supports higher-power PV modules
- IP66 protection rating – built to withstand harsh environments
- Type II SPD protection on both DC and AC sides
- Smart grid compatibility – maintains stable generation under weak grid conditions
- CT/Meter 2-in-1 interface for easy configuration with EPM
- Generation and status at a glance – remote smart control via app
- 24-hour consumption monitoring via CT/Meter

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DATASHEET

Models	2.5K	3K	3.6K	4K	4.6K	5K	6K
Input DC							
Recommended max. PV power	3.75 kW	4.5 kW	5.4 kW	6 kW	6.9 kW	7.5 kW	9 kW
Max. input voltage				550 V			
Rated voltage				360 V			
Start-up voltage				60 V			
MPPT voltage range				50 - 550 V			
Max. input current				21 A / 21 A			
Max. short circuit current				30 A / 30 A			
MPPT number / Max. input strings number				2 / 2			
Output AC							
Rated output power	2.5 kW	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	2.5 kVA	3 kVA	3.6 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Max. output power	2.5 kW	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Rated grid voltage	1/N/PE, 220 V / 230 V						
Rated grid frequency	50 Hz / 60 Hz						
Rated grid output current	11.4 A / 10.9 A	13.6 A / 13.0 A	16.0 A / 15.7 A	18.2 A / 17.4 A	20.9 A / 20.0 A	22.7 A / 21.7 A	27.3 A / 26.1 A
Max. output current	11.4 A	13.6 A	16.0 A	18.2 A	20.9 A	22.7 A	27.3 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)						
THDi	< 3%						
Efficiency							
Max. efficiency	97.3%			97.6%		97.7%	
EU efficiency	96.5%	96.6%		97.1%			
Protection							
DC reverse-polarity protection				Yes			
Short circuit protection				Yes			
Output over current protection				Yes			
Surge protection				DC Type II / AC Type II			
Grid monitoring				Yes			
Anti-islanding protection				Yes			
Temperature protection				Yes			
Multi peak scan				Yes			
Integrated AFCI 2.0				Optional			
Integrated DC switch				Yes			
General Data							
Dimensions (W × H × D)	330 × 371 × 161 mm						
Weight	8.8 kg	8.9 kg		9.5 kg	9.6 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)	< 40 dB(A)						
Cooling concept	Natural cooling			Natural cooling with internal fan			
Max. operation altitude	4000 m						
Grid connection standard	G98, G99						
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN IEC 61000-6-1/-2/-3/-4						
Features							
DC connection	MC4 connector						
AC connection	Quick connection plug						
Display	LED digital display & Bluetooth + APP						
Export control interface	CT/Meter (2-in-1)						
Communication	RS485, USB, Optional: Wi-Fi, GPRS						