

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
- CT/Meter 2-in-1 interface for easy configuration with EPM
- Smart grid compatibility – maintains stable generation under weak grid conditions
- 24-hour consumption monitoring via CT/Meter
- Generation and status at a glance – remote smart control via app

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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 (optional)						
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	8.7 kg	8.8 kg		9.4 kg	9.5 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	EN 50549-1/-10, VDE 0126/XP C15/VFR 2019, C10-26, NRS 097-2-1, IEC 62116, IEC 61727, IEC 61000-3-2/-3/-11/-12						
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						