enPrimo

Powering Brighter Tomorrow

GRID-TIED INVERTERS

S6-GR1P(4-5)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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Models	4K	5K
Input DC		
Recommended max. PV power	6 kW	7.5 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	4 kW	5 kW
Max. apparent output power	4 kVA	5 kVA
Max. output power	4 kW	5 kW
Rated grid voltage	1/N/PE, 220 V / 230 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	18.2 A / 17.4 A	22.7 A / 21.7 A
Max. output current	18.2 A	22.7 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)	
THDi	< 3%	
DC injection current	< 0.5% In	
Efficiency		
Max. efficiency	97.6%	97.7%
EU efficiency	97.1%	
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Insulation resistance monitoring	Yes	
Residual current detection	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	Optional	
General Data		
Dimensions (W × H × D)	330 × 371 × 161 mm	
Weight	9.4 kg	9.5 kg
Topology	Transformerless	
Self-consumption (night)	< 1 W	
Operating ambient temperature range	-25 ~ +60℃	
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	IS 16169: 2019 / IEC 62116: 2014 and IS 17980: 2022 / IEC 62891: 2020	
Safety / EMC standard	IS 16221 (Part 2): 2015 / IEC 62109-2: 2011	
Features		
DC connection	MC4 connector	
AC connection	Quick connection plug	
Display	LED digital display & Bluetooth + APP	
Export control interface	Optional CT/Meter(2-in-1)	
Communication	RS485, USB, Optional: S5-WiFi-ST-USB, S1-W4G-ST	

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