

Grid-Tied Inverters

S6-GR1P(3-6)K-S

2 MPPT | 16A per MPPT



- String current up to 16A
- 24-hour load consumption monitoring
- AFCI protection, proactively reduces fire risk
- Support dynamic export control with CT only
- Compact design for easy installation
- Integrated CT and Meter interface

AUSTRALIA

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DATASHEET

S6-GR1P(3-6)K-S

Models	3K	3.6K	4K	4.6K	5K	6K
Input DC						
Recommended max. PV power	4 kW	4.8 kW	5.3 kW	6.1 kW	6.7 kW	8 kW
Max. input voltage	550 V					
Rated voltage	330 V					
Start-up voltage	100 V					
MPPT voltage range	90 - 550 V					
Max. input current	16 A / 16 A					
Max. short circuit current	22 A / 22 A					
MPPT number / Max. input strings number	2 / 2					
Output AC						
Rated output power	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Rated apparent output power	3 kVA	3.6 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Max. apparent output power	3 kVA	3.6 kVA	4 kVA	4.6 kVA	5 kVA	6 kVA
Max. output power	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	6 kW
Rated grid voltage	1/N/PE, 230 V					
Rated grid frequency	50 Hz					
Rated grid output current	13.0 A	15.7 A	17.4 A	20.0 A	21.7A	26.1 A
Max. output current	13.0 A	15.7 A	17.4 A	20.0 A	21.7A	26.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)					
THDi	< 3%					
Efficiency						
Max. efficiency	97.3%		97.6%		97.7%	
EU efficiency	96.6%		97.1%		97.1%	
Protection						
DC reverse-polarity protection				Yes		
Short circuit protection				Yes		
Output over current protection				Yes		
Surge protection				Yes		
Grid monitoring				Yes		
Anti-islanding protection				Yes		
Temperature protection				Yes		
Multi peak scan				Yes		
Integrated AFCI 2.0				Optional		
Integrated DC switch				Yes (PV2 Switch)		
General Data						
Dimensions (W × H × D)				330 × 371 × 161 mm		
Weight	8.3 kg		8.9 kg		9 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			Natural cooling with internal fan		
Max. operation altitude	4000 m					
Grid connection standard	AS/NZS 4777.2:2020, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530					
Safety / EMC standard	IEC 62109-1/-2, IEC 61000-6-2/-3					
Features						
DC connection	MC4 connector					
AC connection	Quick connection plug					
Display	LED digital display & Bluetooth + APP					
Export control interface ⁽¹⁾	Optional: CT, Meter, CT/Meter (2-in-1)					
Communication	RS485, USB, Optional: Wi-Fi, GPRS					
Country of manufacture	China					

(1) CT interface inverter shall only match a CT with 2-pin connector;
 Meter interface inverter shall only match a Meter with 2-pin connector;
 CT/Meter(2-in-1) interface inverter shall only match a CT or Meter with 4-pin connector.