



solis

20th
ANNIVERSARY



Grid-Tied Inverters

S6-GR3P(3-10)K02-NV-ND

2 MPPT | 21A per MPPT

- String current up to 21A
- > 200% DC/AC ratio
- Dual independent RS485 ports, supporting communication with multiple devices
- 24-hour load consumption monitoring
- Nighttime PID recovery function (optional)
- IP66, C5 Anti-Corrosion Level
- Information scrolling display, easy access to inverter operation information
- Adaptive weak grid

NIGERIA

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DATASHEET

S6-GR3P(3-10)K02-NV-ND

Models	3K	4K	5K	6K	8K	9K	10K
Input DC							
Recommended max. PV power	4,5 kW	6 kW	7,5 kW	9 kW	12 kW	13,5 kW	15 kW
Max. input voltage				1100 V			
Rated voltage				600 V			
Start-up voltage				160 V			
MPPT voltage range				160 - 1000 V			
Max. input current				21 A / 21 A			
Max. short circuit current				26,5 A / 26,5 A			
MPPT number / Max. input strings number				2 / 2			
Output AC							
Rated output power	3 kW	4 kW	5 kW	6 kW	8 kW	9 kW	10 kW
Max. apparent output power	3 kVA	4 kVA	5 kVA	6 kVA	8 kVA	9 kVA	10 kVA
Max. output power	3 kW	4 kW	5 kW	6 kW	8 kW	9 kW	10 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V						
Rated grid frequency	50 Hz / 60 Hz						
Rated grid output current	4,6 A / 4,3 A	6,1 A / 5,8 A	7,6 A / 7,2 A	9,1 A / 8,7 A	12,2 A / 11,5 A	13,7 A / 13,0 A	15,2 A / 14,4 A
Max. output current	4,6 A / 4,3 A	6,1 A / 5,8 A	7,6 A / 7,2 A	9,1 A / 8,7 A	12,2 A / 11,5 A	13,7 A / 13,0 A	15,2 A / 14,4 A
Power factor	> 0,99 (0,8 leading - 0,8 lagging)						
THDi	< 3%						
Efficiency							
Max. efficiency				98,3%		98,5%	
EU efficiency				97,7%		97,9%	
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			
I/V Curve scanning				Yes			
Multi peak scan				Yes			
Integrated AFCI 2.0				Optional			
Integrated PID recovery				Optional			
Integrated DC switch				Yes			
General Data							
Dimensions (W × H × D)				355 × 410 × 179 mm			
Weight	14,7 kg			15,4 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)	< 30 dB(A)						
Cooling concept	Natural cooling						
Max. operation altitude	4000 m						
Grid connection standard	G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530						
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4						
Features							
DC connection	MC4 connector						
AC connection	Quick connection plug						
Display	LED digital display & Bluetooth + APP						
Communication	RS485, Optional: Wi-Fi, GPRS						