



12-25K

Grid-Tied Inverters

S5-GR3P(12-25)K(21A)

2 MPPT | 21A/32A/42A per MPPT

- String current up to 21A
- > 150% DC/AC ratio
- IP66, C5 Anti-Corrosion Level
- 24-hour load consumption monitoring
- Dual independent RS485 ports, supporting communication with multiple devices
- Adaptive weak grid

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DATASHEET

Models	12K	15K	17K	20K	25K
Input DC					
Recommended max. PV power	18 kW	22.5 kW	25.5 kW	30 kW	37.5 kW
Max. input voltage	1100 V				
Rated voltage	600 V				
Start-up voltage	160 V				
MPPT voltage range	160 - 1000 V				
Max. input current	32 A / 21 A		42 A / 32 A		
Max. short circuit current	40 A / 26.3 A		52.5 A / 40 A		
MPPT number / Max. input strings number	2 / 3		2 / 4		
Output AC					
Rated output power	12 kW	15 kW	17 kW	20 kW	25 kW
Max. apparent output power	12 kVA	15 kVA	17 kVA	20 kVA	25 kVA
Max. output power	12 kW	15 kW	17 kW	20 kW	25 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	18.2 A / 17.3 A	22.8 A / 21.7 A	25.8 A / 24.6 A	30.4 A / 28.9 A	38.0 A / 36.1 A
Max. output current	18.2 A / 17.3 A	22.8 A / 21.7 A	25.8 A / 24.6 A	30.4 A / 28.9 A	38.0 A / 36.1 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)				
THDi	< 3%				
DC injection current	< 0.5% I _n				
Efficiency					
Max. efficiency	98.5%	98.6%		98.7%	
EU efficiency	97.9%	98.0%		98.1%	
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				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 DC switch				Yes	
General Data					
Dimensions (W × H × D)	310 × 518 × 219 mm				
Weight	19 kg		20.7 kg		21.4 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)	< 40 dB(A)		< 50 dB(A)		
Cooling concept	Natural cooling with internal fan		Intelligent fan-cooling		
Max. operation altitude	4000 m				
Grid connection standard	IEC 61683, IEC 60068, IEC 61727, IEC 62116, EN 50530, IS 16169/IS 16221(BIS)				
Safety / EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4				
Features					
DC connection	MC4 connector				
AC connection	Quick connection plug				
Display	LCD				
Communication	RS485, Optional: S5-WiFi-ST, S3-GPRS-ST				