



Solis (80-110)K-5G-Pro

Three-phase string inverter

Features:

- Efficiency up to 98.5%;
- 6/8 independent MPPT for different sizes;
- Compatible with double-sided modules;
- Remote firmware upgrade;
- Intelligent string monitoring;
- DC side supports “Y” connector;
- AFCI protection;
- Ingress protection IP66;
- 5 years warranty;

Dimensions:

Width: 1183 mm
Height: 585 mm
Depth: 363 mm



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Model	Solis-3P80K-5G Pro	Solis-3P100K-5G Pro	Solis-3P110K-5G Pro
INPUT DC			
Max. DC input voltage [V]		1100	
Rated DC voltage [V]		600	
Start-up DC voltage [V]		180	
MPPT voltage range [V]		160 ~ 1000	
Max. input current [A]	3x32 + 3x36		4x32 + 4x36
Max. short circuit current [A]	6x50		8x50
MPPT number/Max. input strings number	6/12		8/16
OUTPUT AC			
Rated output power [kW]	80	100	110
Max. apparent power [kVA]	88	110	121
Max. output power [kW]	88	110	121
Rated grid voltage and frequency [V-Hz]		220/380, 230/400 - 50/60	
Rated grid output current [A]	121.6 / 115.5	152.0 / 144.3	167.1 / 158.8
Max. output current [A]	133.7	167.1	183.3
Output Power Factor		>0.99 (0.8 leading ... 0.8 lagging)	
THDi [%]		<3	
EFFICIENCY			
Massima efficienza dell'inverter [%]		98.5	
Efficienza europea dell'inverter [%]		98	
PROTECTION			
DC reverse-polarity protection		Yes	
Short circuit protection		Yes	
Output over current protection		Yes	
Surge protection		Type DC II / AC II	
Grid monitoring		Yes	
Anti-islanding protection		Yes	
Temperature protection		Yes	
Strings Monitoring		Yes	
I/V Curve scanning		Yes	
Anti-PID function		for version with integrated PID recovery	
Integrated AFCI [DC ari-fault circuit protection]		Yes	
Integrated DC switch		Yes	
GENERAL DATA			
Dimensions [WxHxD, mm]		1183x585x363	
Weight [kg]	77		93
Topology		Transformer less	
Self consumption [W, night]		<2	
Operating ambient temperature range [°C]		-30 ~ +60	
Relative humidity [%]		0-100	
Ingress protection		IP66	
Cooling concept		Intelligent redundant fan cooling	
Max. operation altitude [m]		4000	
Grid connection standard		G99, IEC61727, EN50549-1/2, VDE4110, CEI 0-16, CEI 0-21	
Safety/EMC standard		IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN55011:2016+A1:2017+A11:2020+A2:2021, EN 61000-6-2:2019, EN 61000-6-4:2019, EN 61000-3-11:2019 (Applicable EN 61000-3-5:2019), EN 61000-3-12:2011, ROHS Directive 2011/65/EU, WEEE Directive 2012/19/EU	
Connection type AC / DC		OT terminal (max. 240 mm ²) / MC4 connector	
Display		LCD	
Communication		RS485, Wi-Fi - Optional:GPRS, PLC	
Warranty [years]		5	

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