



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-year warranty extendable to 10 years with “Energy Care”.

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
Item Code	90051102		90051104	90051106
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 output 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				
Max efficiency of Inverter [%]	98.5			
European efficiency of 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 arc-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 mm²) / MC4 connector			
Display	LCD			
Communication	RS485, Wi-Fi – Optional:GPRS , PLC			
Warranty [years]	5 (*)			

(*) extendable to 10 years with "Energy Care", item code 90050499

