



# Solis Three-phase (80-110)K

## Three-phase string inverter

### Features:

- Efficiency up to 98.7%;
- 9/10 independent MPPT;
- Compatible with double-sided modules;
- Remote firmware update;
- Supports the “Y” type connection on the DC side;
- IP66;
- 5 or 10 year warranty, extendable up to 20;
- Energy Srl assistance.

### Models:

Solis-80K-5G  
Solis-100K-5G  
Solis-110K-5G

### Dimensions:

Height: 1065 mm  
Width: 567 mm  
Depth: 344.5 mm  
Weight: 84 kg



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Model	Solis-80K-5G	Solis-100K-5G	Solis-110K-5G
<b>INPUT DC</b>			
Max. DC input voltage [V]		1100	
Rated DC voltage [V]		600	
Start-up DC voltage [V]		195	
MPPT voltage range [V]		180-1000	
Max. input current [A]	9*26A		10*26A
Max. short circuit current [A]	9*40A		10*40A
MPPT number/Max. input strings number	9/18		10/20
<b>OUTPUT AC</b>			
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]		220/380V,230/400V - 50/60Hz	
Rated grid output current [A]	121.6A	152.0A	167.1A
Max. output current [A]	133.7A	167.1A	183.3A
Output Power Factor		>0.99 (0.8 leading ... 0.8 lagging)	
THDi		<3%	
<b>EFFICIENCY</b>			
Massima efficienza dell'inverter		98.7%	
Efficienza europea dell'inverter		98.3%	
<b>PROTECTION</b>			
DC reverse-polarity protection		Yes	
Short circuit protection		Yes	
Output over current protection		Yes	
Surge protection		Type DC II / AC II (AC Type I optional)	
Grid monitoring		Yes	
Anti-islanding protection		Yes	
Strings Monitoring		Yes	
I/V Curve scanning		Yes	
Anti-PID function		Optional	
Integrated AFCI [DC ari-fault circuit protection]		Yes	
Integrated AC switch		Yes	
Integrated DC switch		Yes	
<b>GENERAL DATA</b>			
Dimensions [WxHxD]	1050x567x314.5 mm (with AC switch)	1065x567x344.5 mm	
Weight [kg]	82	84	
Topology		Transformer less	
Self consumption [night]		<2W	
Operating ambient temperature range		-25°C + 60°C	
Relative humidity		0-100%	
Ingress protection		IP66	
Cooling concept		Intelligent redundant fan cooling	
Max. operation altitude		4000m	
Design lifetime		>20 years	
Grid connection standard	CEI 0-21, VDE-AR-N N4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, RD 1699, UNE 206006, UNE 206007-1, IEC61727, DEWA		
Safety/EMC standard	IEC 62109-1/-2, IEC 62116, EN 61000-6-2/-4		
Connection type AC / DC	OT terminal (max. 185 mm <sup>2</sup> / MC4 connector		
Display	7.0"LCD color display		
Communication	CAN/RS485/ - WiFi/GPRS, PLC optional		
Warranty	5 years standard (extendable to 20 years if monitoring)		

The information in this brochure are not binding. Energy Srl reserves the right to make changes at any time without notice.

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