

Solis-80K-5G, Solis-(80-110)K-HV-5G

Solis 5G Three Phase Inverters



Features:

- ▶ Max. 13A per string, support 1.5 DC overloading capability
- ▶ 10 individual MPPT, lower mismatch loss
- ▶ Efficient logic algorithm, over 99% max. Efficiency
- ▶ String monitoring, shorter O&M time
- ▶ Remote & local intelligent IV scan function
- ▶ Leakage current repression technology
- ▶ Volt-watt work mode integrated
- ▶ DC input reverse alarm
- ▶ Optional anti-PID function integrated
- ▶ Reactive power compensation function



Model:

- 400V: Solis-80K-5G
- 480V: Solis-80K-HV-5G Solis-90K-HV-5G
- Solis-100K-HV-5G
- 540V: Solis-110K-HV-5G

Datasheet

Model Name	Solis-80K-5G	Solis-80K-HV-5G	Solis-90K-HV-5G	Solis-100K-HV-5G	Solis-110K-HV-5G
Input DC					
Recommended Max. DC input power	104kW	104kW	117kW	120kW	132kW
Max. DC input voltage	1100V				
Start-up voltage	200V				
MPPT voltage range	180-1000V				
Max. input current	26A				
Max. Short Circuit current for each MPPT	40A				
MPPT number/Max input strings number	8/16		9/18		10/20
Output AC					
Rated output power	80kW	80kW	90kW	100kW	110kW
Max. apparent output power	88kVA	88kVA	99kVA	110kVA	121kVA
Rated grid voltage	400V	480V		540V	
Max. output current	133.7A	105.9A	119.1A	132.3A	129.4A
Power Factor (at rated output power)	0.8leading ... 0.8lagging				
THDi (at rated output power)	< 2%				
Operation phase	3/ (N) /PE				
Efficiency					
Max. efficiency	99.00%	99.00%	99.00%	99.00%	99.00%
EU efficiency	98.40%	98.40%	98.40%	98.40%	98.40%
CEC efficiency	98.50%	98.50%	98.50%	98.50%	98.50%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%	99.5%
Protection					
Anti-islanding protection	Yes				
DC reverse-polarity protection	Yes				
Insulation resistance monitoring	Yes				
Residual current detection	Yes				
DC Surge protection	Type II				
AC Surge protection	Type II				
Grid monitoring	Yes				
Strings Monitoring	Yes				
I/V Curve scanning	Yes				
Anti-PID function	Yes				
AFCI fuction	optional				
General Data					
Dimensins(W*H*D)	1050*567*286.5				
Weight	75kg				
Topology	Transformerless				
Self consumption (night)	< 2W				
Operating ambient temperature range	-25--+60°C				
Relative humidity	0~100%				
Ingress protection	IP65				
Noise emission(typical)	≤ 55dB(A)				
Cooling concept	Fan cooling				
Max.operation altitude	4000m (> 2000m derating)				
Standards					
Grid connection standard	EN50549, G99, AS4777, VDE0126-1-1, IEC61727, VDE4105-2018				
Safety/EMC standard	IEC62109-1/-2, NBT32004-2018, EN61000-6-1, EN61000-6-3				
Features					
DC switch	Integrated				
DC connection	MC4				
AC connection	OT Terminal connectors				
DRM function	Yes				
Meter interface	Integrated				
Display	LCD, 2×20 Z.				
Communication	RS485 /PLC (optional) /Wifi(optional) /GPRS(optional)				
OTA update	Yes				
Warranty	5 Years /10 Years /15 Years /20 Years				