

Solis-80K-5G

Solis 5G Three Phase Inverters



Features:

- ▶ Max. 13A per string, support 1.5 DC overloading capability
- ▶ 9 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

Datasheet

Model Name	Solis-80K-5G
Input DC	
Recommended Max. DC input power (kW)	120
Max. DC input voltage (V)	1100
Nominal DC voltage (V)	600
Start-up voltage (V)	200
MPPT voltage range (V)	180-1000
Full load MPPT voltage range (V)	505-850
Max. input current (A)	26A
Max. Short Circuit current for each MPPT	40A
MPPT number/Max input strings number	9/A:2; B:2; C:2; D:2; E:2; F:2; G:2; H:2, I:2
Output AC	
Rated output power	80kW
Max. apparent output power	88kVA
Max. output power	88kW
Rated grid voltage	3/N/PE, 230/400V
Rated grid frequency	50Hz/60Hz
AC Output frequency range	45 ~ 55Hz/55 ~ 60Hz
Rated grid current	115.5A
Max. output current	133.7A
Power Factor (at rated output power)	0.8leading ... 0.8lagging
THDi (at rated output power)	< 3%
DC injection current	0.5%In
Efficiency	
Max. efficiency	99.00%
EU efficiency	98.40%
MPPT efficiency	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 /Type I + II
AC Surge protection	Type II
Grid monitoring	Yes
Strings Monitoring	Yes
I/V Curve scanning	Yes
Anti-PID function	Yes
DC are-fault circuit protection	Yes
Integarated DC switch	Yes
Integarated AC switch	Optional
General Data	
Dimensins(W*H*D)	1050W*567H*286.5D
Weight	< 85kg
Topology	Transformerless
Self consumption (night)	< 2W
Operating ambient temperature range	- 25~+60°C
Relative humidity	0~100%
Ingress protection	IP66
Noise emission{typical}	≤ 55dB(A)
Cooling concept	Fan cooling
Max.operation altitude	4000m
Standards	
Grid connection standard	EN50549, G99, AS4777.2-2015, VDE0126-1-1, IEC62727, VDE4105-2018, IEE1547, UL1741SA
Safty/EMC standard	IEC62109-1/-2, NB/T32004-2018, EN61000-6-1, EN61000-6-3, UL1741, FCC
Features	
DC connection	MC4
AC connection	OT Terminal connectors
Display	LCD, 2×20 Z.
Communication	RS485 /PLC (optional)
Warranty	5 Years /10 Years /15 Years /20 Years