

Solis-(25-40)K-5G, Solis-(40-50)K-HV-5G

Solis Three Phase Inverters



360 degree

Features:

- ▶ Max. efficiency 98.8%
- ▶ Wide voltage range and low startup voltage
- ▶ 3/4 MPPT design with precise MPPT algorithm
- ▶ THDi<3%, low harmonic distortion against grid
- ▶ Anti-resonance, supporting over 6MW paralleled in one transformer
- ▶ Perfect commercial site monitoring solution
- ▶ 130% DC overload ratio, 13A input for each PV string
- ▶ Strings intelligent monitoring, Smart I-V curve scan
- ▶ Fuse free design to avoid fire hazard
- ▶ Type II surge arrester for both DC and AC
- ▶ Natural convection, Fan-less design, longer lifespan
- ▶ Leakage current repression technology
- ▶ Volt-watt work mode integrated
- ▶ DC input reverse alarm
- ▶ Intergrated Export Power Manager (EPM)



Model:

- 400V:** Solis-25K-5G Solis-30K-5G
 Solis-33K-5G Solis-40K-5G
480V: Solis-40K-HV-5G Solis-50K-HV-5G

Datasheet

Model Name	Solis-25K-5G	Solis-30K-5G	Solis-33K-5G	Solis-40K-5G	Solis-40K-HV-5G	Solis-50K-HV-5G
Input DC						
Recommended max. PV power	33kW	39kW	43kW	52kW	52kW	65kW
Max. input voltage	1100V					
Rated voltage	600V					
Start-up voltage	180V					
MPPT voltage range	200-1000V					
Max. input current	26A/26A/26A			4*26A		
Max. short circuit current	40A/40A/40A			4*40A		
MPPT number/Max. input strings number	3/6			4/8		
Output AC						
Rated output power	25kW	30kW	33kW	40kW	40kW	50kW
Max. apparent output power	27.5kVA	33kVA	36.3kVA	44kVA	44kVA	55kVA
Max. output power	27.5kW	33kW	36.3kW	44kW	44kW	55kW
Rated grid voltage	3/N/PE, 220/380V, 230/400V				3/PE, 480V	
Rated grid frequency	50/60Hz					
Rated grid output current	38.0A/36.1A	45.6A/43.3A	50.1A/47.6A	60.8A/57.7A	48.1A	60.1A
Max. output current	41.8A	50.2A	55.1A	66.9A	53.0A	66.2A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)					
THDi	<3%					
Efficiency						
Max. efficiency	98.8%					
EU efficiency	98.3%					
Protection						
DC reverse-polarity protection	Yes					
Short circuit protection	Yes					
Output over current protection	Yes					
Surge protection	DC Type II / AC Type II					
Grid monitoring	Yes					
Anti-islanding protection	Yes					
Temperature protection	Yes					
Strings monitoring	Yes					
I/V Curve scanning	Yes					
Anti-PID function	Optional					
Integrated AFCI (DC arc-fault circuit protection)	Yes					
Integrated DC switch	Yes					
General Data						
Dimensions (W*H*D)	647*629*252 mm					
Weight	45kg					
Topology	Transformerless					
Self consumption	<1W (night)					
Operating ambient temperature range	-25 ~ +60°C					
Relative humidity	0-100%					
Ingress protection	IP65					
Cooling concept	Natural convection					
Max. operation altitude	4000m					
Grid connection standard	VDE-AR-N 4105, VDE V 0124, VDE V 0126-1-1, UTE C15-712-1, NRS 097-1-2, G98, G99, EN 50549-1/-2, IEC 61727, DEWA					
Safety/EMC standard	IEC 62109-1/-2, IEC 62116, EN 61000-6-1/-2/-3/-4					
Features						
DC connection	MC4 connector					
AC connection	OT terminal					
Display	LCD					
Communication	RS485, Optional: Wi-Fi, GPRS					