

Solis-(25-50)K-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-36K-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-36K-5G	Solis-40K-5G	Solis-40K-HV-5G	Solis-50K-HV-5G
Input DC							
Recommended max. PV power	33kW	39kW	43kW	47kW	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	36kW	40kW	40kW	50kW
Max. apparent output power	27.5kVA	33kVA	36.3kVA	39.6kVA	44kVA	44kVA	55kVA
Max. output power	27.5kW	33kW	36.3kW	39.6kW	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	54.7A/52.0A	60.8A/57.7A	48.1A	60.1A
Max. output current	41.8A	50.2A	55.1A	60.2A	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				Optional			
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, IEC61727, 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			

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