

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:

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|--------------|-----------------|-----------------|
| 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
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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						