

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

Solis 5G Three Phase Inverters



Features:

- ▶ Over 98.8% Max. efficiency
- ▶ Wide voltage range and low startup voltage
- ▶ 3/4 MPPT design with precise MPPT algorithm
- ▶ THDi<3%, low harmonic distortion against grid
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ Perfect commercial site monitoring solution
- ▶ 1.3 times DC overload ratio, 13A input for each PV string
- ▶ Strings intelligent monitoring, Smart I-V Curve Diagnosis supported
- ▶ 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

Max. input 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	3*26A			4*26A			
Max. Short Circuit current	3*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	50Hz/60Hz						
Rated grid output current	38.0A/36.1A	45.6A/43.3A	50.1A/48.1A	57.7A/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 (Adjustable from 0.8 leading to 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/AC)	Yes
Grid monitoring	Yes
Islanding protection	Yes
Temperature protection	Yes
Strings monitoring	Yes
I/V Curve scanning	Yes
Anti-PID function	Optional
Intergarated DC switch	Yes

General Data

Dimensions (W*H*D)	647mm*629mm*252mm
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	EN50549, G99, AS4777.2-2015, VDE0126-1-1, IEC62727, VDE4105-2018, NB/T 32004
Safety/EMC standard	IEC62109-1/-2, EN61000-6-2, EN61000-6-3

Features

DC connection	MC4
AC connection	Terminal board
Display	LCD, 2×20 Z.
Communication	RS485; WiFi/GPRS (optional)