

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

## Solis 5G Three Phase Inverters



360 degree



### 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, supporting over 6MW parallelled 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 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:

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
<b>Input DC</b>							
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		
<b>Output AC</b>							
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	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 (0.8 leading - 0.8 lagging)						
THDi	<3%						
<b>Efficiency</b>							
Max. efficiency	98.8%						
EU efficiency	98.3%						
<b>Protection</b>							
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 DC switch	Optional						
<b>General Data</b>							
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	EN50549, G99, AS4777.2-2015, VDE0126-1-1, IEC 62727, VDE4105-2018, NB/T 32004						
Safety/EMC standard	IEC62109-1/-2, EN61000-6-2, EN61000-6-3						
<b>Features</b>							
DC connection	MC4 connector						
AC connection	OT terminal						
Display	LCD, 2x20 Z						
Communication	RS485, Optional: Wi-Fi, GPRS						