

Solis-(40-60)K, Solis-(50-70)K-HV

Solis Three Phase Inverters



360 degree

Features:

- ▶ Over 99% Max. efficiency
- ▶ Wide voltage range and low startup voltage
- ▶ 4 MPPT input, each rated current is 22A/28.5A, compatible with high power module
- ▶ THDi<3%, low harmonic distortion against grid
- ▶ Anti-resonance, supporting over 6MW paralleled in one transformer
- ▶ Perfect commercial site monitoring solution
- ▶ Intelligent redundant fan-cooling



Model:

400V: Solis-40K Solis-50K Solis-60K-4G
480V: Solis-50K-HV Solis-60K-HV Solis-70K-HV-4G

Datasheet

Model Name	Solis-40K	Solis-50K	Solis-50K-HV	Solis-60K-HV	Solis-60K-4G	Solis-70K-HV-4G
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Input DC

Recommended max. PV power	48kW	60kW	60kW	72kW	72kW	84kW
Max. input voltage	1100V					
Rated voltage	600V	600V	720V	720V	600V	720V
Start-up voltage	200V					
MPPT voltage range	200-1000V					
Max. input current	4*22A	4*28.5A	4*22A		4*28.5A	
Max. short circuit current	4*34.3A	4*44.5A	4*34.3A		4*44.5A	
MPPT number/Max. input strings number	4/8	4/12	4/8		4/12	

Output AC

Rated output power	40kW	50kW	50kW	60kW	60kW	70kW
Max. apparent output power	44kVA	55kVA	55kVA	66kVA	66kVA	77kVA
Max. output power	44kW	55kW	55kW	66kW	66kW	77kW
Rated grid voltage	3/N/PE, 220/380V, 230/400V		3/PE, 480V		3/N/PE, 220/380V, 230/400V	3/PE, 480V
Rated grid frequency	50/60Hz					
Rated grid output current	58A/60.8A	72.2A/76A	60.2A	72.2A	86.6A/91.2A	84.2A
Max. output current	66.9A	83.3A	66.2A	80A	100A	92.6A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)					
THDi	<3%					

Efficiency

Max. efficiency	98.8%				99.0%	
EU efficiency	98.4%				98.5%	

Protection

DC reverse-polarity protection	Yes					
Short circuit protection	Yes					
Output over current protection	Yes					
Surge protection	Yes					
Grid monitoring	Yes					
Anti-islanding protection	Yes					
Temperature protection	Yes					
Strings monitoring	Yes					
Anti-PID function	Optional					
Integrated DC switch	Optional					

General Data

Dimensions (W*H*D)	630*700*357 mm					
Weight	61kg	63kg	61kg		63kg	
Topology	Transformerless					
Self consumption	<1W (night)					
Operating ambient temperature range	-25 ~ +60°C					
Relative humidity	0-100%					
Ingress protection	IP65					
Cooling concept	Natural convection	Intelligent redundant fan-cooling	Natural convection		Intelligent redundant fan-cooling	
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, RD 1699, UNE 206006, UNE 206007-1, IEC 61727, DEWA					
Safety/EMC standard	IEC 62109-1/-2, IEC 62116, EN 61000-6-2/-4					

Features

DC connection	MC4 connector					
AC connection	OT terminal					
Display	LCD, 2x20 Z					
Communication	RS485, Optional: Wi-Fi, GPRS					