

Solis-(40-60)K-FB

Solis Three Phase Inverters



Features:

- ▶ Max. efficiency 99%
- ▶ Wide voltage range and low startup voltage
- ▶ 4 MPPT input, each rated current is 24A/36A, 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-FB Solis-50K-FB
 Solis-60K-4G-FB
- 480V:** Solis-50K-HV-FB Solis-60K-HV-FB

Datasheet

Model Name	Solis-40K-FB	Solis-50K-FB	Solis-50K-HV-FB	Solis-60K-HV-FB	Solis-60K-4G-FB
Input DC					
Recommended max. PV power	48kW	60kW	60kW	72kW	72kW
Max. input voltage	1100V				
Rated voltage	600V	600V	720V	720V	600V
Start-up voltage	200V				
MPPT voltage range	200-1000V				
Max. input current	4*24A	4*36A	4*24A		4*36A
Max. short circuit current	4*37.5A	4*56.2A	4*37.5A		4*56.2A
MPPT number/Max. input strings number	4/8	4/12	4/8		4/12
Output AC					
Rated output power	40 kW	50 kW	50 kW	60 kW	60 kW
Max. apparent output power	44 kVA	55 kVA	55 kVA	66 kVA	66 kVA
Max. output power	44 kW	55 kW	55 kW	66 kW	66 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		3/PE, 480 V		3/N/PE, 220 V / 380 V, 230 V / 400 V
Rated grid frequency	50 Hz / 60 Hz				
Rated grid output current	58 A / 60.8 A	72.2 A / 76 A	60.2 A	72.2 A	86.6 A / 91.2 A
Max. output current	66.9 A	83.3 A	66.2 A	80 A	100 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<2%				<3%
Efficiency					
Max. efficiency	98.8%		99.0%		99.0%
EU efficiency	98.4%		98.7%		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*1034*374 mm				
Weight	75 kg	78 kg	75 kg		78 kg
Topology	Transformerless				
Self consumption (night)	<1 W				
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	4000 m				
Grid connection standard	G98 or G99, VDE-AR-N 4105 / VDE V 0124, EN 50549-1, VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 / UNE 206007-1, CEI 0-21, C10/11, NRS 097-2-1,EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530				
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4				
Features					
DC connection	MC4 connector				
AC connection	OT Terminal				
Display	LCD				
Communication	RS485, Optional: Wi-Fi, GPRS				