

Solis-(20-33)K, Solis-(36-40)K-HV

Solis Three Phase Inverters



Features:

- ▶ Over 98.8% Max. efficiency
- ▶ Wide voltage range and low startup voltage
- ▶ 7.0" LCD color screen display
- ▶ Four MPPT design with precise MPPT algorithm
- ▶ Compact and light design, easy installation
- ▶ Optional AFCI function



Model:

400V: Solis-20K Solis-25K Solis-30K Solis-33K

480V: Solis-36K-HV Solis-40K-HV

Datasheet

Model Name	Solis-20K	Solis-25K	Solis-30K	Solis-33K	Solis-36K-HV	Solis-40K-HV
Input DC						
Max. input power	24kW	30kW	36kW	40kW	43kW	48kW
Max. input voltage	1000V					
Rated voltage	600V			700V		
Start-up voltage	350V					
MPPT voltage range	200-800V					
Max. input current	4*18A					
Max. Short Circuit current	4*23.4A					
MPPT number/Max. input strings number	4/8					
Output AC						
Rated output power	20kW	25kW	30kW	33kW	36kW	40kW
Max. apparent output power	22kVA	27.5kVA	33kVA	33kVA	40kVA	44kVA
Max. output power	22kW	27.5kW	33kW	33kW	40kW	44kW
Rated grid voltage	3/N/PE, 220/380V, 230/400V				3/PE, 480V	
Rated grid frequency	50Hz/60Hz					
Rated grid output current	30.3A/28.7A	37.9A/36.1A	45.5A/43.3A	50A/47.8A	43.3A	48.1A
Max. output current	33.3A	41.7A	50A	50A	47.8A	53A
Power Factor	>0.99 (Adjustable from 0.8 leading to 0.8 lagging)					
THDi	<3%					
Efficiency						
Max. efficiency	98.6%			98.7%	98.8%	
EU efficiency	98.3%				98.4%	
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					
Integrated DC switch	Optional					
General Data						
Dimensions (W*H*D)	530mm*700mm*356.5 mm					
Weight	57.2kg	58.2kg				
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, IEC61727, DEWA					
Safety/EMC standard	IEC 62109-1/-2, IEC62116, EN 61000-6-1/-2/-3/-4					
Features						
DC connection	MC4					
AC connection	Terminal connectors					
Display	7.0"LCD color screen display					
Communication	RS485;WiFi / GPRS (optional)					