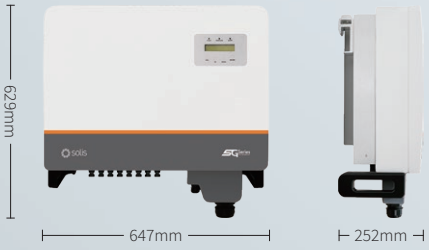
Solis-(25-50)K-5G

Solis Three Phase Inverters

360 degree

Features:

- Max. efficiency 98.8%
- 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
- 150% DC overload ratio, 13A input for each PV string
- Strings intelligent monitoring, Smart I-V curve scan
- 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
Input DC							
Recommended max. PV power	38 kW	45 kW	50 kW	54 kW	60 kW	60 kW	75 kW
Max. input voltage	1100 V						
Rated voltage	600 V						
Start-up voltage	180 V						
MPPT voltage range	200-1000 V						
Max. input current	26 A / 26 A /26 A			4*26 A			
Max. short circuit current	40 A / 40 A / 40 A			4*40 A			
MPPT number/Max. input strings number	3/6			4/8			
Output AC							
Rated output power	25 kW	30 kW	33 kW	36 kW	40 kW	40 kW	50 kW
Max. apparent output power	27.5 kVA	33 kVA	36.3 kVA	39.6 kVA	44 kVA	44 kVA	55 kVA
Max. output power	27.5 kW	33 kW	36.3 kW	39.6 kW	44 kW	44 kW	55 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V					3/PE, 480 V	
Rated grid frequency	50 Hz / 60 Hz						
Rated grid output current	38.0 A / 36.1 A	45.6 A / 43.3 A	50.1 A / 47.6 A	54.7 A / 52.0 A	60.8 A / 57.7 A	48.1 A	60.1 A
Max. output current	41.8 A	50.2 A	55.1 A	60.2 A	66.9 A	53.0 A	66.2 A
Power Factor	>0.99 (0.8 leading - 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 Type II / AC Type II						
Grid monitoring	Yes						
Anti-islanding protection	Yes						
Temperature protection	Yes						
Strings monitoring	Yes						
I/V Curve scanning	Yes						
Integrated PID recovery	Optional						
Integrated AFCI (DC arc-fault circuit protection)	Yes (1)						
Integrated DC switch	Optional						
General Data							
Dimensions (W*H*D)	647*629*252 mm						
Weight	45 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						
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, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC60068, IEC 61683, EN 50530						
Safety/EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4						
Features							
DC connection	MC4 connector						
AC connection	OT terminal						
Display	LCD						
Communication	RS485, Optional: Wi-Fi, GPRS						

(1) Activation required.