

Solis-(25-50)K-5G-AU

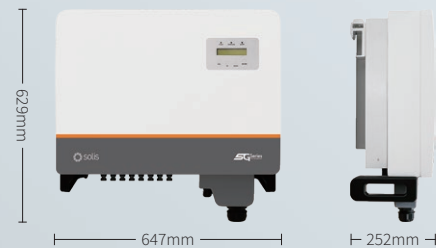
Solis Three Phase Inverters



360 degree

Features:

- ▶ Max. efficiency 98.8%
- ▶ Complies with Western Power, SA, VIC, QLD, and NSW grid requirements
- ▶ Integrate with adjustable Volt-Watt and Volt-Var function
- ▶ DRM integrated, fully comply with AS4777.2:2015
- ▶ Built-in DC-PV2 Switch (optional), comply with AS/NZS 5033 requirements
- ▶ Support 24h consumption monitoring with a smart meter
- ▶ 4 MPPT design with precise MPPT algorithm, effectively reducing string mismatch
- ▶ 130% DC overload ratio, 13A input for each PV string
- ▶ Strings intelligent monitoring, Smart I-V curve scan
- ▶ Wide voltage range and low startup voltage
- ▶ Fuse free design
- ▶ Type II surge arrester for both DC and AC
- ▶ Natural convection, Fan-less design
- ▶ Voltage active power and reactive power



Model:

- | | | |
|--------------|--------------------|--------------------|
| 400V: | Solis-25K-5G-AU | Solis-30K-5G-AU |
| | Solis-30K-5G-AU-MX | Solis-33K-5G-AU |
| | Solis-36K-5G-AU | Solis-40K-5G-AU |
| 480V: | Solis-40K-HV-5G-AU | Solis-50K-HV-5G-AU |

Datasheet

Model Name	Solis-25K-5G-AU	Solis-30K-5G-AU	Solis-30K-5G-AU-MX	Solis-33K-5G-AU	Solis-36K-5G-AU	Solis-40K-5G-AU	Solis-40K-HV-5G-AU	Solis-50K-HV-5G-AU
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Input DC

Recommended max. PV power	33 kW	39 kW	39 kW	43 kW	47 kW	52 kW	52 kW	65 kW
Max. input voltage	1100 V							
Rated voltage	600 V							
Start-up voltage	180 V							
MPPT voltage range	200-1000 V							
Max. input current	4*26 A							
Max. short circuit current	4*30 A							
MPPT number/Max. input strings number	4/8							

Output AC

Rated output power	25 kW	30 kW	29.99 kW	33 kW	36 kW	40 kW	40 kW	50 kW
Max. apparent output power	27.5 kVA	33 kVA	29.99 kVA	36.3 kVA	39.6 kVA	44 kVA	44 kVA	55 kVA
Max. output power	27.5 kW	33 kW	29.99 kW	36.3 kW	39.6 kW	44 kW	44 kW	55 kW
Rated grid voltage	3/N/PE, 230 V / 400 V						3/PE, 480 V	
Rated grid frequency	50 Hz							
Rated grid current	36.1 A	43.3 A	43.3 A	47.6 A	52.0 A	57.7 A	48.1 A	60.1 A
Max. output current	41.8 A	50.2 A	43.3 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%							
CEC 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							
Anti-PID function	Optional							
Intergarated DC switch	Optional (PV2 Switch)							

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	AS/NZS 4777.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530							
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-1/-2/-3/-4							

Features

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