

# Solis-(40-60)K

## 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
- ▶ High precision, high speed MPPT algorithm
- ▶ THDi<3%, low harmonic distortion against grid
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ Perfect commercial site monitoring solution
- ▶ Compact and light weight design for easy installation
- ▶ IP65, visually pleasing for domestic environment
- ▶ Intelligent redundant fan-cooling
- ▶ Voltage active power and reactive power



### Model:

- 400V:** Solis-40K      Solis-50K
- 480V:** Solis-50K-HV      Solis-60K-HV

## Datasheet

Model Name	Solis-40K	Solis-50K	Solis-50K-HV	Solis-60K-HV
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### Input DC

Recommended max. PV power	53 kW	67 kW	67 kW	80 kW
Max. input voltage	1100 V			
Rated voltage	600 V		720 V	
Start-up voltage	200 V			
MPPT voltage range	200-1000 V			
Max. input current	4*22 A	4*28.5 A	4*22 A	4*28.5 A
Max. short circuit current	4*34.3 A	4*44.5 A	4*34.3 A	4*44.5 A
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
Max. apparent output power	44 kVA	55 kVA	55 kVA	66 kVA
Max. output power	44 kW	55 kW	55 kW	66 kW
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V		3/PE, 480 V	
Rated grid frequency	50 Hz			
Rated grid output current	58 A	72.2 A	60.2 A	72.2 A
Max. output current	66.9 A	83.3 A	66.2 A	80 A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)			
THDi	<3%			

### Efficiency

Max. efficiency	98.8%
EU efficiency	98.4%

### 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 AFCI (DC arc-fault circuit protection)	Optional
Integrated DC switch	Optional

### General Data

Dimensions (W*H*D)	630*700*357 mm			
Weight	61 kg	63 kg	61 kg	63 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	AS/NZS 4777.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN 50530			
Safety/EMC standard	IEC 62109-1/-2, IEC 61000-6-2/-4			

### Features

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