

# RHI-(3-6)K-48ES-5G

## Solis Energy Storage Inverters



360 degree

### Features:

- ▶ Uninterrupted power supply, 20ms reaction
- ▶ Complies with Western Power, SA, VIC, QLD, and NSW grid requirements
- ▶ 5kW backup power to support more important loads
- ▶ With shifting and peak shaving capabilities friendly to grid
- ▶ DRM integrated, fully comply with AS4777.2:2015
- ▶ Multiple working modes to make maximize self-consumption, increase benefit
- ▶ Higher charge-discharge efficiency, improving the economic benefits
- ▶ Fanless design, long lifespan
- ▶ Intelligent BMS function, improving battery's reliability
- ▶ With high-frequency isolation technology, making system safer and long lifespan
- ▶ 24-hour fully intelligent energy management, Real-time grasp of PV plant status
- ▶ Remotely control & upgrade function, making digital power plant maintenance at your fingertips



### Model:

RHI-3K-48ES-5G

RHI-3.6K-48ES-5G

RHI-4.6K-48ES-5G

RHI-5K-48ES-5G

RHI-6K-48ES-5G

## Datasheet

Model Name	RHI-3K-48ES-5G	RHI-3.6K-48ES-5G	RHI-4.6K-48ES-5G	RHI-5K-48ES-5G	RHI-6K-48ES-5G
<b>Input DC (PV side)</b>					
Recommended max. PV power	7 kW	7 kW	8 kW	8 kW	8 kW
Max. input voltage			600 V		
Rated voltage			330 V		
Start-up voltage			120 V		
MPPT voltage range			90-520 V		
Max. input current			11 A / 11 A		
Max. short circuit current			17.2 A / 17.2 A		
MPPT number/Max. input strings number			2/2		
<b>Battery</b>					
Battery type			Li-ion / Lead-acid		
Battery voltage range			42 - 58 V		
Battery capacity			50 - 2000 Ah		
Max. charge / discharge power	3 kW		5 kW		
Max. charge / discharge current	62.5 A		100 A		
Communication			CAN/RS485		
<b>Output AC (Back-up)</b>					
Rated output power	3 kW		5 kW		
Max. apparent output power	4 kVA		6 kVA		
Back-up switch time			<20 ms		
Rated output voltage			1/N/PE, 220 V / 230 V		
Rated frequency			50 Hz / 60 Hz		
Rated output current	13.6 A / 13 A		22.7 A / 21.7 A		
THDv (linear load)			2%		
<b>Input AC (Grid side)</b>					
Input voltage range			184-264 V		
Max. input current			26.1 A		
Frequency range			45-55 Hz / 55-65 Hz		
<b>Output AC (Grid side)</b>					
Rated output power	3 kW	3.6 kW	4.6 kW	5 kW	6 kW
Max. apparent output power	3.3 kVA	4 kVA	4.6 kVA	5.5 kVA	6 kVA
Operation phase			1/N/PE		
Rated grid voltage			220 V / 230 V		
Rated grid frequency			50 Hz / 60 Hz		
Rated grid output current	13.6 A / 13 A	16.3 A / 15.7 A	20.9 A / 20 A	22.7 A / 21.7 A	27.2 A / 26.1 A
Max. output current	15.7 A	17.3 A	23 A	23.9 A	26.1 A
Power Factor			>0.99 (0.8 leading - 0.8 lagging)		
THDi			<2%		
<b>Efficiency</b>					
Max. efficiency			>97.5%		
EU efficiency			>96.8%		
<b>Protection</b>					
Ground fault monitoring			Yes		
Integrated AFCI (DC arc-fault circuit protection)			Optional		
DC reverse-polarity protection			Yes		
Protection class/Over voltage category			I/II		
<b>General Data</b>					
Dimensions (W*H*D)			333*505*249 mm		
Weight			17 kg		
Topology			High frequency isolation (for battery)		
Operating ambient temperature range			-25 ~ +60°C		
Ingress protection			IP65		
Cooling concept			Natural convection		
Max. operation altitude			2000 m		
Grid connection standard			EN50438, G98, G99, AS4777.2:2015, VDE0126-1-1, IEC 61727, VDE N4105, CEI 0-21, CE		
Safety/EMC standard			IEC62040-1, IEC62109-1/-2, AS3100, NB/T 32004, EN61000-6-2, EN61000-6-3		
<b>Features</b>					
DC connection			MC4 connector		
AC connection			Quick connection plug		
Display			7.0"LCD color screen display		
Communication			RS485, Optional: Wi-Fi, GPRS		