

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

Solis Energy Storage Inverters





360 degree

Features:

- ▶ Uninterrupted power supply, 20ms reaction
- ▶ 5kW backup power to support more important loads
- ▶ With shifting and peak shaving capabilities friendly to grid
- ► Multiple working modes to make maximize self-consumption, increase benefit
- ▶ Higher charge-discharge efficiency, improving the economic benefits
- ► Compatible with lithium & lead-acid batteries, increased more choice in different markets
- ► 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-4.6K-48ES-5G RHI-6K-48ES-5G

RHI-3.6K-48ES-5G RHI-5K-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
Input DC (PV side)					
Max. input power	7kW	7kW	8kW	8kW	8kW
Max. input voltage			600V		
Rated voltage			330V		
Start-up voltage			120V		
MPPT voltage range			90-520V		
Max. input current			11A/11A		
Max. short circuit current	17.2A/17.2A				
MPPT number/Max. input strings number	2/2				
Battery			2/2		
Battery type			Li-ion/Lead-acid		
Battery voltage range	42 - 58V				
Battery capacity	42 - 38V 50 - 2000Ah				
Max. charging power	3kW		30 - 2000AII	5kW	
Max. charge/discharge current	62.5A/62.5A		100A/100A		
	02.3N 02.3N		100A/100A CAN/RS485		
Communication Output AC (Back-up)			CAN/N3403		
	31	-101		ELM	
Rated output power	3kW		5kW 6kVA		
Max. apparent output power	4kVA				
Back-up switch time	<20ms				
Rated output voltage	1/N/PE, 220/230V				
Rated frequency			50/60Hz		
Rated output current	1	3A		22A	
THDV			2% (linear load)		
Output AC (Grid side)				•	
Rated output power	3kW	3.6kW	4.6kW	5kW	6kW
Max. apparent output power	3.3kVA	4kVA	4.6kVA	5.5kVA	6kVA
Rated grid voltage			1/N/PE, 220/230V		
Rated grid frequency			50/60Hz		
Rated grid output current	13A	15.7A	20.9A	21.7A	26.1A
Max. output current	15.7A	17.3A	23A	23.9A	26.1A
Power Factor	>0.99 (0.8 leading - 0.8 lagging)				
THDi	<2%				
Efficiency					
Max. efficiency	>97.5%				
EU efficiency	>96.8%				
Protection					
Ground fault monitoring	Yes				
Integrated AFCI (DC arc-fault circuit protection)	Optional				
DC reverse-polarity protection	Yes				
Protection class/Over voltage category	I/II				
General Data					
Dimensions (W*H*D)	333*505*249 mm				
Weight	17kg				
Topology	High frequency isolation (for battery)				
Operating ambient temperature range	-25 ~ +60°C				
Ingress protecton/ Pollution degree	IP65/PD3				
Cooling concept	Natural convection				
Max. operation altitude	2000m				
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				
Features					
DC connection			MC4 connector		
AC connection	Quick connection plug				
Display	7.0"LCD color screen display				
Communication	RS485, Optional: Wi-Fi, GPRS				