

Energy  
Storage

5kW

# HYBRID All NEW Solis Series

## Hybrid Energy Storage Inverter

- ▶ All NEW Intelligent Hybrid PV Inverter
- ▶ Dual MPPT – 3K, 3.6K, 5K
- ▶ Off-grid backup function
- ▶ Export Control
- ▶ UPS function
- ▶ Intelligent EMS function
- ▶ Integrated BMS
- ▶ Smart battery SOC detection - Compatible with various 48V batteries
- ▶ Numerous protection functions
- ▶ CAN, RS485, WiFi/LAN/GRPS (Optional)
- ▶ 5 years standard warranty, 20 years optional upgrade



### Model:

RHI-5K-48ES

### Features:

Off-Grid  
Backup

Flexible  
adaptation  
Lithium  
battery

Smart  
Energy  
management

7"  
LCD

WiFi/GPRS  
Real time  
monitoring

Available on the iPhone  
App Store  
Available on the iPhone  
App Store

# Datasheet

Model	RHI-5K-48ES
Energy Control	Intelligent Hybrid with Grid Backup
<b>Input DC(PV side)</b>	
The max DC input voltage(V)	600
Start-up DC voltage(V)	120
MPPT operating voltage range(V)	90-520
MPPT Number	2
The rating max dc input current(A/B)	11A/11A
<b>Battery</b>	
Battery Type	Li-ion
Battery Voltage range(V)	42-58
Battery Capacity(Ah)	50-2000
Maximum Charging Power(W)	3000
Maximum Charging/discharge current(A)	62.5
<b>Output AC(Back-up)</b>	
Rating output power(kW)	3
Transient max. apparent output power	4000kVA, 10sec
Back-up switch time	<10ms
Operation phase	L-N-PE
Rating grid voltage(V)	220/230/240
Rating grid frequency(Hz)	50/60
Rating grid output current(A)	13
THDi	2%(linear load)
<b>Output AC(Grid side)</b>	
Rating output power(kW)	5 (4.6 for 4105)
Max. apparent power from grid(kVA)	5.5
Operation phase	L-N-PE
Rating grid voltage(V)	220/230/240
The grid voltage range(V)	180~270
Rating grid frequency(Hz)	50/60
AC grid frequency range(Hz)	47-52 or 57-62
Rating grid output current(A)	21.7
Output power factor	1 (default) and 0.8leading ... 0.8lagging adjustable
THD	<2%
<b>Efficiency</b>	
Max efficiency of Solar Inverting	>97.5%
European efficiency of Solar Inverting	>96.8%
Max efficiency of Battery Inverting	>95%
Max efficiency of Battery charging	>95%
<b>Protection device</b>	
Ground fault monitoring	Integrated
Residual current monitoring unit	Integrated
DCAFCI	Optional
DC reverse polarity protection	Yes
Protection class/Over voltage category	I/IV
<b>General Data</b>	
Dimensions(W/H/D)	333*505*249(mm)
Weight(kg)	17
Operation temperature range	-25°C ~ 60°C
Protection degree	IP65
Inverter Topology	High frequency insulation (for battery)
Noise emission (typical)	<20dBA
Cooling concept	Natural convection
Design lifetime	>20 years
Safety/EMC standard	IEC62040-1, IEC62109-1/-2, AS3100, , NB/T 32004, EN61000-6-1, EN61000-6-3
AC and DC Connections	Quick Connection
Interface	CAN/RS485/WiFi/GPRS (optional)
Warranty	5 years standard (extend to 20 years)