

## Energy Storage

3kW  
-  
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/GPRS (Optional)
- ▶ 5 years standard warranty, 20 years optional upgrade



### Model:

RHI-3K-48ES    RHI-3.6K-48ES    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  
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App Store

# Datasheet

Model	RHI-3K-48ES	RHI-3.6K-48ES	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)	150-500		
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)	100-500		
Maximum Charging Power(W)	3000		
Maximum Charging current(A)	62.5		
Short circuit protection	electronic, with max. charging current, switch-off < 1 sec.		
Number of Cycles	>4000		
Batteries temperature compensation	Included		
Batteries voltage measurement	Integrated		
<b>Output AC(Back-up)</b>			
Rating output power(kW)	3		
Operation phase	L-N-PE		
Rating grid voltage(V)	202/220/240		
Rating grid frequency(Hz)	50/60		
Rating grid output current(A)	15		
THDi	3%(linear load)		
<b>Output AC(Grid side)</b>			
Rating output power(kW)	3	3.6	5
Operation phase	L-N-PE		
Rating grid voltage(V)	202/220/240		
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)	13	15.7	21.7
Output power factor	>0.99		
THD	<4%		
<b>Efficiency</b>			
Max efficiency of Solar Inverting	>97%		
European efficiency of Solar Inverting	>96.5%		
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		
DC AFCI	Optional		
DC reverse polarity protection	Yes		
Protection class/Over voltage category	I/IV		
<b>General Data</b>			
Dimensions(W/H/D)	333*565*250(mm)		
Weight(kg)	20	21	25
Operation temperature range	-25°C ~ 60°C		
Protection degree	IP65		
Inverter Topology	Transformerless		
Noise emission (typical)	<30dBA		
Cooling concept	Natural convection		
Design lifetime	>20 years		
Safety/EMC standard	EC62109-1-2, NB/T 32004, AS4777.2: 2015, IEC62040		
AC and DC Connections	Quick Connection		
Interface	CAN/RS485/WiFi/GPRS (optional)		
Warranty	5~10 years		