

Energy Storage

3kW
-
5kW

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-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 Available on the iPhone App Store
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Datasheet

Model	RHI-3K-48ES	RHI-3.6K-48ES	RHI-5K-48ES
Energy Control	Intelligent Hybrid with Grid Backup		
Input DC(PV side)			
The max DC input voltage(V)	600		
Start-up DC voltage(V)	120		
MPPT operating voltage range(V)	90-520		
MPPT number/Strings per MPPT input	2 / A:1; B:1		
The rating max dc input current(A/B)	11A+11A		
Battery			
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		
Output AC(Back-up)			
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)		
Output AC(Grid side)			
Rating output power(kW)	3	3.6	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)	13	15.7	21.7
Output power factor	1 (default) and 0.8leading ... 0.8lagging adjustable		
THD	<2%		
Efficiency			
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%		
Protection device			
Ground fault monitoring	Integrated		
Residual current monitoring unit	Integrated		
DC AFCI	Optional		
DC reverse polarity protection	Yes		
Protection class/Over voltage category	I/IV		
General Data			
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)		