

About Risen

Risen Energy is a world leading Tier 1 manufacturer of high-performance solar photovoltaic products. It was founded in 1986 and publicly listed in 2010 (Shenzhen Stock Code: 300118).

Risen energy also provides total business solutions for residential, commercial and utility-scale power generation, which are the most advanced and cost-effective in the industry. With local market presence and strong financial bankability status, we are committed to building strategic, mutually beneficial collaboration with our partners.



Hybrid Energy Storage Inverter

» BE5000-RH

- All NEW Intelligent Hybrid PV Inverter
- Dual MPPT-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

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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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Technical Data

BE5000-RH

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	2
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)	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%
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)