

Residential ESS Inverter - AC Coupled

Hi-INV 5KAC

Single Phase 5kW
AC Coupled Inverter



COST EFFECTIVE

- Retrofit existing PV system seamlessly
- Minimize peak-time use and save electricity bills
- Improve PV self-consumption to avoid exporting energy to the grid with extra low price



SUPERIOR EFFICIENCY

- Max efficiency up to 95%
- Max. Charge/Discharge Current up to 100A
- Reasonable energy control to increase the proportion of spontaneous use



INTELLIGENCE AND FLEXIBILITY

- On-grid & backup power function integrated
- Scalable storage capacity to suit your unique energy demand
- Seamless switchover to keep your power on during outages



EASY SERVICES

- Online visibility of asset's operational condition via APP
- Global training and supporting
- Replaceable boards and spare parts

Specifications

Model	Hi-INV 5KAC
Efficiency	
Max. Efficiency	95%
Input (Battery)	
Lead-Acid Battery Charge Curve	Lithium-ion / Lead-Acid
Lithium-ion Battery Charge Curve	48V
Battery Voltage Range	42-60V
Max. Charge / Discharge Current	100A
Nominal Battery Voltage	Self-adaption to BMS
Battery Type	3 stages
Output (Grid)	
Rated AC Active Power	5000W
Max.Ac Active power	5500W
Rated AC Voltage	230V
Max. AC Current Output to Utility Grid (A)	23.8A
AC Voltage Range ①	180V-275V (Adjustable)
Rated Grid Frequency	50Hz / 60Hz
Grid Frequency Range ②	55Hz-65Hz (Adjustable)
Power Factor	<3% (Rated Power)
THDI	> 0.99 Rated power (Adjustable 0.8 Leading – 0.8Lagging)
Output (EPS)	
Nominal Output Power	5000VA
Nominal Output Voltage	230V
Nominal Output Frequency	50Hz / 60Hz
THDV	<3% @100% R Load
Switching Time (Typical)	10ms
Protection	
Anti-islanding protection	Support
AC overcurrent protection	Support
AC short circuit protection	Support
Insulation detection	Support
Leakage current protection	Support
General	
Topology	High Frequency Isolation
IP Rating	IP65
Cooling	Natural cooling
Operating Temperature Range	-25°C - 60°C
Relative Humidity Range	0 - 100%
Max. Operating Altitude	4000m
Noise(Typical)	<30dB
Dimensions (W*H*D)	515*500*175mm
Weight	28Kg
HMI & COM	
Display	LED & APP
Communication	RS485, CAN, WIFI / GPRS / 4G (optional)
Certification	
Safety	IEC62477-1, IEC62040-1
Grid Code	AS / NZS 4777.2, IEC 61727 / 62116, VDE4105-AR-N, EN 50549
Warranty	5 Years / 10 Years (Optional)

Remarks: • ①②The range of output voltage and frequency may vary depending up on different grid codes. • Specifications are subject to change without advance notice.



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