

Ener-Cube

**Residential & Commercial Battery
Energy Storage System (BESS)**

5kVA / 5kWh



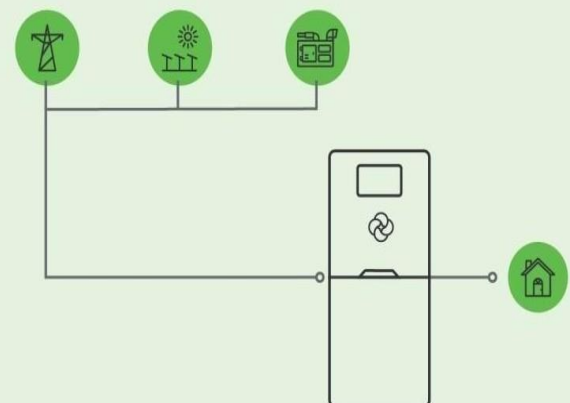
Ener-Cube 5kVA/ 5kWh



- It is a set of intelligent Battery Energy Storage systems (BESS) built in using best of class lithium-ion Phosphate (LFP) Battery Cells for the maximum safety and performance .
- Its Contains built in Inverter and MPPTs allowing DC Charging from solar power in addition to AC Charging from the grid ,Diesel generator or any other AC Source.
- The System is modular and easily expandable by adding power or energy module in step of 5kVA/5kWh to create system size to your need.
- Plug and play architecture Ener-Cube is an ideal Solution For The Residential and Small Commercial Power backup Application.

Feature-Loaded BESS

- Plug and play design
- Integrated MPPT for DC Solar Charging
- Off-grid operation capability with solar
- Priority settable for grid, solar & battery
- Highly Safe to use compliant with IEC 62933 Stan
- Lesser welded LFP Cells with >94 % DC efficiency
- Long life up to 6000 cycle
- Inbuilt HMI to view system information



Technical Specifications

INPUT

Voltage 230 VAC	Voltage Range +/- 15%	Frequency Range 50 Hz/60 Hz (Auto sensing)
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ENVIRONMENTAL CONDITIONS

Humidity 5%-90%	Ambient Temperature 10°C to 45°C	Operating Temperature -,10°C to 50°C.
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BATTERY

Battery Type Lithium-ion(LFP)	Depth of Discharge (DOD) 90%	Ampere Rating 100Ah
Battery Voltage 48 VDC	Battery Cycles 6000 at 80% DOD	
Floating Charge Voltage 54 VDC	Overcharge Protection 66 VDC	

OUTPUT

AC Voltage Regulation 230 VAC + 5%	Efficiency (Peak) 98% (Line Mode) 90% (Battery Mode)
Output THDv >than 3% for linear load <8% for non-linear load	Surge Power 10 KVA for 5 sec.
Waveform Pure sine wave	Transfer Time 10 ms
Relative humidity Enclosure	0 ~ 95% (non -condensing)



Cabinet design provides a high protection class IP 20*.

Safety & Reliability features

- Perfect protection function for inverter and battery.
- Redundancy design for system safety. important functions.
- DC electric circuit safety management
- Multi-state monitoring and linkage actions ensure battery

The specifications and Product enclosure image in this document are subject to change without notice.

All Models can be expanded in Power & Energy Terms – by adding 5kVA Inverter & 5kWh Battery e.g. 5kVA/10kWh, 5kVA/15kWh, 10kVA/10kWh, 10kVA/15kWh.

* System must be protected against water and sun

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Market & Sales by

Enertech Industrial Solution LLP

S. No. 399/1-2, Bhare, P. O. Ghotawade, Near
Pirangut, Taluka- Mulshi, Dist.- Pune – 412115 India

Web. : www.enertechups.com

Contact

+91 9920051821 / +91 9373336340

Email

sales@enertechups.com

Our Product Offering

- Online UPS
- Energy storage System
- Solar Hybrid PCS
- Static Frequency Converter
- Industrial Battery Charger