



IGNACORE

Energy Storage System
Model-HomeCore-10/10

10 kW/ 10 kWh

- **Uninterruptible Supply:** Instantly delivers power (within <10ms) during grid or genset failure, preventing production downtime and equipment damage.
- **Diesel Generator Reduction:** Significantly reduces diesel genset runtime, leading to major savings on fuel costs, O&M expenses, and generator wear & tear
- **Peak Load Shaving:** Discharges during high tariff hours or peak demand, reducing demand charges and avoiding penalties for exceeding contract demand.
- **Renewable Integration Ready:** Enables smooth integration of future (or existing) rooftop or ground-mounted solar PV, storing excess solar for use after sunset.
- **Improved Power Quality:** BESS stabilizes voltage and frequency, and filters out harmonics, protecting sensitive equipment and improving overall power quality.
- **Intelligent Power Management:** BESS can be programmed to optimize dispatch between grid, solar, and gensets, ensuring cost-effective and reliable energy use.

Capacity-10kW/10kWh	
DC	
Battery type	LiFePO4 (SEMI-SOLID-STATE)
Cell Parameter	3.2V & 100A
Cell Configuration	2P*16S
Battery Capacity	10kWh
Nominal DC Voltage (V)	51.2V
Current Rating (A)	200A
Battery Configuration	2(51.2V x 100A)
Rated Charge/Discharge rate	0.5C
Cooling Mode	Smart Air-cooling with Air conditioner
Life cycles	6000
Lifespan	Designed for 15+ years



Specification	
PV INPUT (DC)	
Recommend max.PV input power	10000Wp
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC
MPPT Voltage Range	60~450VDC
Default No. of PV strings per MPPT	1/27A
TWO LOAD OUTPUT POWER	
Full Load	10000W
Maximum Main Load	10000W
Maximum Second Load (battery mode)	3400W
Main Load Cut Off Voltage	44VDC
Main Load Return Voltage	52VDC
GRID OUTPUT (AC)	
AC Start-up Voltage/Auto Restart Voltage	220/230/240VAC
Output Voltage Range	195.5~253VAC
Nominal Output Current	44.3A
Power Factor	>0.99
Feed-in Grid Frequency Range	49~51±1Hz
Maximum Conversion Efficiency (Solar to AC)	98%
AC INPUT	
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC
Acceptable Input Voltage Range	90-280VAC or 170-280VAC
Maximum AC Input Current	50A
Nominal Operating Frequency	50/60Hz
Surge Power	20400W

BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220/230/240VAC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	94%
Nominal DC Voltage	48V
Maximum Charging Current (Solar to AC)	160A
Maximum AC Charging Current	140A
PHYSICAL	
Dimension, DWH (mm)	203*648*1295
Net Weight (kgs)	112
Communication Port	RS232/WIFI/GPRS/LITHIUM BATTERY



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THE **IGNACORE** CATALOGUE



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