

IGNACORE

Energy Storage System
Model-ProCore-10/10

10 kW/ 10 kWh



MSDS



- **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.

PV Specifications	
Max. PV input power	15,000W
Nominal DC voltage / Voc	600V
Start-up / Min. operation voltage	180V
MPPT voltage range	150-950V
No. of MPPTs / Strings	1or 2
Max. PV input / Short circuit current	48A (16A/32A)
Input/ Output(AC)	
Max. AC input power from grid	20,500VA
Rated AC output power	10,000W
Max. AC output apparent power	11,000VA
Rated / Max. AC output current	15.2A / 16.7A
Rated AC voltage	3/N/PE 220V/380V 230V/400V 240V/41V
AC voltage range	270-480V
Rated grid frequency	50Hz / 60Hz
Grid frequency range	45-55Hz / 55-65Hz
Harmonic (THD) (of rated power)	< 3%
Power factor at Rated power	> 0.99
Adjustable power factor	0.8 leading to 0.8 lagging
AC type	Three phase

Environment	
Charge temperature	0°C to 50°C @ 60±25% Relative Humidity
Discharge temperature	-20°C to 50°C @ 60±25% Relative Humidity
Storage temperature	-20°C to 50°C @ 60±25% Relative Humidity

Mechanical

IP class	IP65
Material system	LiFePO4
Case material	Metal
Case type	All in One Stack
Dimension L*W*H (mm)	Inverter high-voltage box: 770*210*787 / Battery box: 770*188*621 (single)
Package dimension LWH (mm)	Inverter high-voltage box: 855*270*870 / Battery box: 870*300*770 (single) Accessory box: 865*485*225
Net weight (kg)	Inverter high-voltage box: 63kg / Battery box: 100kg Accessory box: 9kg

Communication

Protocol (Optional)	RS485/RS232/WLAN Optional
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Certification

System	UN38.3, MSDS, EN, IEC, NRS, G99
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THE **IGNACORE** CATALOGUE



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