



IGNACORE

Energy Storage System
Model-ProCore-10/20

10 kW/ 20 kWh

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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.

Capacity-10kW/20kWh	
Battery	
Battery Type	LFP SEMI-SOLID-STATE
Cell Configuration	1P 120S
Battery Capacity	19.2kWh
Battery Cell	3.2V, 50A
Battery Pack	1x(384V, 50A)
Rated Charge/Discharge Rate	0.5C
Cooling Mode	Smart Air-cooling with Air conditioner
Life Cycles	6000 @ 80% DOD
Lifespan	Designed for 15+ years
Charging Time	1.34 Hours
PV Input	
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	1/2
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/415V
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 LWH (mm)	Inverter high-voltage box: 770210787
	Battery box: 770188621 (single)
Package Dimension LWH (mm)	Inverter high-voltage box: 855270870
	Battery box: 870300770 (single) Accessory box: 865485225
Net Weight (kg)	Inverter high-voltage box: 63kg
	Battery box: 100kg
	Accessory box: 9kg
Communication	
Protocol (Optional)	RS485/RS232/WLAN Optional
Certification	
System	UN38.3, MSDS, EN, IEC, NRS, G99

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THE **IGNACORE** CATALOGUE



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