

IGNACORE

Battery Energy Storage System

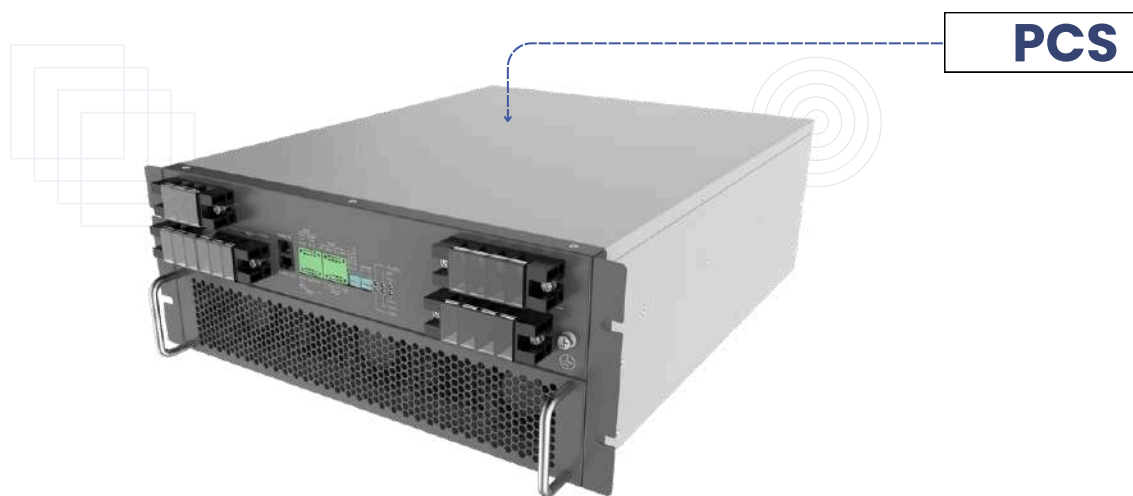
Model: ComCore-30/30



WHY CHOOSE IGNACORE?

- **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-30kW/30kWh	
DC	
Battery type	LFP SEMI-SOLID-STATE
Cell Configuration	1P*96S
Battery Capacity	30kWh
Nominal DC Voltage (V)	307.2V
Current Capacity (A)	100Ah
Rated Charge/Discharge rate	0.5C
Cooling Mode	Smart Air-cooling with Air conditioner
Life cycles	10000
Lifespan	Designed for 20+ years
Charging time	2.34 Hours



PCS	
PCS Brand	SINOSOAR
PCS Model	30HBG2

PCS	
Max PV Input Power	19.2kW +19.2kW
Max PV Input Rated Voltage	850V
PV Input Rated Voltage	600V
MPPT Voltage Range	200V~800V
Starting Voltage	250V
Max PV Input Current	32A+32A
Number of MPPT Input	2
Max DC Short Circuit Current	35A
GRID (On Grid)	
AC Rated Power	30kVA
AC Rated Current 230VAC	43.5A
Nominal AC Voltage	3/N/PE/AC400/230V
AC Voltage Range	-20%~+15%
Grid Frequency	50Hz/60Hz
Power Factor	-0.8~0.8
Output (Off Grid)	
AC Rated Power	30kVA
AC Rated Current 230VAC	43.5A
Nominal AC Voltage	3/N/PE/AC400/230V
Max AC Power	33kVA
Max AC Current	48A
AC Output Frequency	50Hz/60Hz
Power Factor at Nominal	0.8
Switch Time to Emergency Mode	<10ms
Max. Discharge Current	100A
Max. Discharge Power	30kW/34kW

General	
Safety Class	I
Overvoltage Category (IEC)	III(DC), II(AC)
Enclosure	IP20
Ambient Temperature	-25°C ~ +60°C (>45°C derating)
Non-Isolated Converter	YES
Stand-alone or Grid Support Utility Interactive Converter	YES



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THE **IGNACORE** CATALOGUE



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