

IGNACORE

Battery Energy Storage System

Model: ComCore-30/60



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.
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Capacity-30kW/60kWh	
DC	
Battery type	LFP SEMI-SOLID-STATE
Cell Configuration	1P*192S
Battery Capacity	60kWh
Nominal DC Voltage (V)	358V
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
AC (On-grid)	
Apparent Power	33kva
Rated Power	30kw
Rated current	43.5A
Rated Voltage	400V
Overload Capability	$48A < I_{load} \leq 54A / 100s$ $54A < I_{load} \leq 65A / 100ms$
Input (PV)	
Max. PV Input Voltage	850V
Max, PV Input current	32A+32A
Max. PV Input Power	19.2kw+19.2kw
MPPT Voltage Range	200V-830V

Display	LCD
BMS Communication	RS485 OR CAN
EMS Communication	RS485
General Data	
Operation Temperature	-30°C ~ +55°C
Protection Degree	IP54 (outdoor use)
Noise Emission	<70dB
Max. Operating Altitude	5000m (derating above 2000 m)
Relative Humidity	0 ~ 95% (non-condensing)
Max.Efficiency	97.80%

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