

# ECO ENERGY.



## BATTERY ENERGY STORAGE SYSTEM

### ZERO EMISSIONS

Reducing carbon footprint.

### BUILT TOUGH

Built to the highest standards.

### ECO ENERGY

Easily integrated with renewable energy sources like solar and wind.



Construction & Civil



Mining & Quarries



Rental



Industrial



Agriculture

The Battery Energy Storage System (BESS) provides a clean, reliable, and cost-effective energy solution that enhances sustainability while reducing operational costs, making it a valuable asset for industries transitioning toward zero emission operations.

The BESS offers several key benefits, particularly in industries like mining, construction, and remote operations that are looking to transition toward sustainable energy solutions.

**OUTSTANDING SPECIFICATIONS**

- Integrate with diesel generating set and solar power for extended periods of autonomous operation.
- Convenient storage and transportation.
- Power and capacity can be expanded to meet any requirement.

**GENERAL SPECIFICATIONS**

<b>Loading Dimensons (L*W*H)</b>	1940 x 1145 x 1880mm
<b>Net Weight</b>	1860kg
<b>System Rated Output Power</b>	30kW
<b>Rated Output Voltage</b>	400V@50Hz, 3ph
<b>Battery Storage Capacity</b>	61.44kWh
<b>Operating Temperature Range</b>	-20C~50C (>45C derating)
<b>Max Altitude</b>	3000m (>2000m derating)

**PCS**

<b>Battery Voltage Range</b>	150~750VDC
<b>Max Current (AC)</b>	47.6A
<b>Max Output Power</b>	33kW
<b>Rated Output Power</b>	30KW
<b>Rated Voltage</b>	400Vac
<b>AC Input Voltage Range</b>	340~460Vac
<b>Rated Frequency Range</b>	50/60Hz (+2.5Hz)
<b>PF</b>	1 lagging ~ 1 leading
<b>AC Connection</b>	3W+N+PE
<b>Max Efficiency</b>	97.3%
<b>Communication</b>	CAN/RS485/Ethernet/WIFI

**ENERGY STORAGE BATTERY**

<b>Cell Type</b>	LFP(LiFePO4)
<b>Pack Model</b>	MF51100
<b>Pack Capacity</b>	5.12 kWh
<b>Pack Rated Voltage</b>	51.2 VDC
<b>Rated Cycle Life</b>	6000 (0.5C @ 90% DOD)
<b>Charger / Discharge Current</b>	50 A (0.5C)
<b>Battery Rack Voltage</b>	614.4VDC
<b>Connection of Rack</b>	12S1P

**HYBRID INVERTER SYSTEM**

<b>Solar Controller</b>	MPPT*4
<b>AC Voltage Range</b>	380~415Vac
<b>Max. PV Current</b>	26A*4
<b>Max.Charge/Discharge Current</b>	210A*2
<b>Max.Conversion Efficiency</b>	97.6%
<b>Rated Output Power</b>	20kVA (0.8 leading~0.8 lagging)

**COOLING SYSTEM**

<b>Cooling Type</b>	HVAC
<b>Operation Mode</b>	Refrigeration and Heating

**FIRE PROTECTION**

<b>Type</b>	Aerosol (CE)
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**EMS**

<b>Display and Monitor</b>	Aerosol (CE)
<b>Function</b>	Energy management and coordinated control of energy storage system

Final weight and dimensions will depend on completed specifications and options, subject to manufacturing tolerances. All the information in this document is substantially correct at the time of creation and may be altered at the manufacturer's sole discretion. Any quotes and related material provided supersedes the contents hereof.