

50 kW / 108 kWh

C&I Energy Storage System

Easy Installation

- Efficient Installation: Plug and play pre-assembled simplifies on-site setup, saves time and labor.
- Diesel Generator Compatibility: Direct connection to generators without the need for an ATS box, offers flexible power configuration.

Safe and Worry-Free

- Fire Protection: Optimally-Designed to effectively prevent fire risks caused by arc faults, ensures system safety.
- Multi-layer Protection: Supports battery health alerts and multi-layer protection mechanisms, ensures safety and stability during operation.

Efficient and Reliable

- Flexible Over-Configuration: Supports 200% PV over-configurations efficiently uses solar energy, ensures long-term system operation.
- Seamless Switching: Supports smooth switching between grid and off-grid, ensures continuous and stable power supply to key equipment.

Smart Management

- Fire Protection: Optimally-Designed to effectively prevent fire risks caused by arc faults, ensures system safety.
- Multi-layer Protection: Supports battery health alerts and multi-layer protection mechanisms, ensures safety and stability during operation.

SYSTEM HIGHLIGHTS

CORE PERFORMANCE AT A GLANCE

100 kW	168 A	2 PORTS	<10 ms	IP66	600 kW
PV INPUT	CHARGE	BATTERY	SWITCH	PROTECTION	PARALLEL

MODEL	MECC-AIO-108
DC PARAMETERS	
Max. PV Array Power	100 kWp
Max. PV Input Voltage	1000V
Nominal Input Voltage	600V
MPPT Voltage Range	150-850 V
MPPT PV Current	40A/40A/40A/40A
Max. Short Circuit Current	60A/60A/60A/60A
No. Of MPPT(S)/Strings Per MPPT	4/2
AC PARAMETERS	
Rated Output Power	50 kW
Max. Apparent Power	50kVA
Nominal AC Voltage	3w+N+PE. 220V/380V 230V/400V
Nominal AC Frequency	50hz/60 Hz
Rated Output Current	76A
Max. Output Current	76A
Adjustable Power Factor Range	>0.99 (0.8 lagging to 0.8 leading)
Peak Output Apparent Power(2s)	80 kVA
THDI (Rated Power)	<2%
BATTERY PARAMETERS	
Battery Type	LiFePO4
Rated Capacity	314 Ah
Rated Battery Voltage	345.6V
Rated Energy	108 kWh
Max. Charging/Discharging Current	157A
SYSTEM PARAMETERS	
Depth Of Discharge	90%
Operating Temperature	-25°C to +55°C
Operating Humidity	0%-95%(non-condensation)
Operating Altitude	2000m
Communication	rs485/wi-fi/ethernet/can
Temperature Control Mode	smart air cooling
Noise	<70db
Ingress Protection	cabinet:IP55; inverter:IP66
Dimensions (WHD)	≤1000×2100×1100 mm
Weight (kg)	<1500 kg

