

C&I Outdoor Cabinet Energy Storage System

96kWh - 256kWh

Provide Full Solution System

C&I OUTDOOR CABINET
ENERGY STORAGE SYSTEM

96kWh - 256kWh | 51.2V x 314Ah LFP, 6-16 modular battery packs

PRODUCT FEATURES

S Safer
Intelligent BMS, cell-level monitoring

R Reliable
IP55, wide temp range

F Flexible
Modular, easy to expand

C Convenient
Auto networking, easy maintenance

E Efficient
Up to 97.5% efficiency

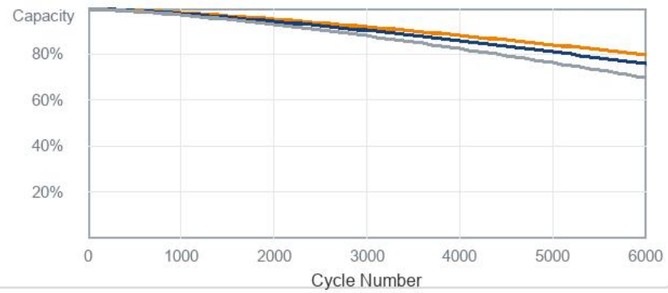
BMS PROTECTION

- Cell Voltage Monitoring
- Short Circuit Protection
- Temperature Protection
- Fire & Aerosol Suppression
- Insulation Detection
- Real-time Data Monitoring

- Modular cabinet design, 96-256kWh flexible configuration
- Intelligent BMS with cell-level monitoring
- Compatible with Deye / Solis / Megarevo and more inverters
- IP55 outdoor cabinet, air-cooled, aerosol fire suppression
- >=6000 cycles @80% DOD, 10+ years design life
- RS485 / CAN, Ethernet / Modbus TCP-IP monitoring

Discharge Capacity Curve

0.5C / 80%DOD / 25C



APPLICATION SCENARIOS


C&I Peak Shaving


PV + Storage


Backup Power


Commercial Building

MAIN PARAMETERS

C&I Outdoor Cabinet ESS | 96-256kWh



96KWH



128KWH



209KWH



225KWH



256KWH

Model Series	96KWH	128KWH	209KWH	225KWH	256KWH
Model	MW-96KWH-307.2V	MW-128KWH-409.6V	MW-209KWH-665.6V	MW-225KWH-716.8V	MW-256KWH-819.2V
High-Voltage Pack	HV96K	HV128K	HV209K	HV225K	HV256K
Nominal Voltage (V)	307.2	409.6	665.6	716.8	819.2
Nominal Capacity (kWh)	96	128	209	225	256
Battery Packs (51.2Vx314Ah)	x6	x8	x13	x14	x16
Max Inverter Matching	50 kW	60 kW	100 kW	125 kW	125 kW
Cabinet Size WxDxH (mm)	800x1080x2260	1280x1080x1740	1280x1080x2260	1280x1080x2260	2510x1300x1250
Weight w/o Inverter (kg)	1140	1700	2140	2260	2600

* Test Conditions - Temperature 25C, at the beginning of life.
* Cycle life measured at 0.5C charge / 0.5C discharge, 80% DOD.
* Specifications subject to change without notice.

Battery Pack - MW314-XXKWH

Battery Types	51.2V x 314Ah LFP
Cell Capacity	314Ah
Recommend CHG/DISG Current	100A
Max. CHG/DISG Current	140A
Communication	RS485 / CAN
Working Temperature	-10 ~ +50 C
Transport / Storage Temp.	-20 ~ +60 C
Cycle Life	>=6000 @80% DOD
Design Life	10 years+

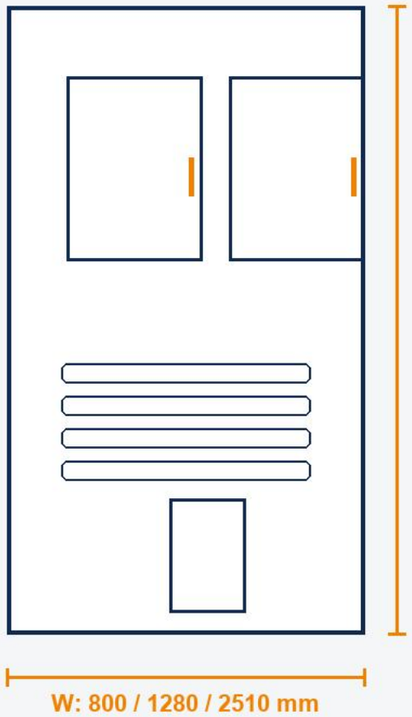
Cabinet & Safety

Cooling Method	Air-cooled
Protection Class	IP55
Firefighting Type	Aerosol
Certification	CE / IEC / UL / UN38.3 / MSDS
Inverter Communication	Ethernet / Modbus TCP-IP
Inverter Type	Deye / Solis / Megarevo / Other

COMPATIBLE INVERTERS

CABINET & PACKING

CABINET DIMENSIONS



(mm)

Dimensions & Weight

Model	WxDxH (mm)	Weight
96KWH	800x1080x2260	1140 kg
128KWH	1280x1080x1740	1700 kg
209KWH	1280x1080x2260	2140 kg
225KWH	1280x1080x2260	2260 kg
256KWH	2510x1300x1250	2600 kg

HV Box & cable entry at cabinet bottom. Base: optional bottom rail / plinth.

SHIPPING ACCESSORIES



Battery Pack



User Manual



Ground Wire



Power Cable



Communication Cable



Hex Screw M5



Serial Busbar



Aerosol Fire Device

High-Voltage Box pre-installed inside cabinet; communication & power cables tailored per inverter brand (Deye / Solis / Megarevo / other).

SERVICE & SUPPORT OEM / ODM Available | Global Logistics Support | Remote Monitoring Platform | Professional After-sales Team

Marwell Technology Co., Ltd.

Marwell Solar - C&I Energy Storage Systems

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