Symmetra MW Battery Systems

Symmetra™ MW II

Front-access battery systems for Symmetra MW

High power density in a safe, easy-to-maintain design

- Adds 5 minutes of runtime @ 400kW from one battery string
- Simplifies maintenance and replacement of batteries with front-access connections
- Accommodates standard-width (125mm) front-access batteries
- Reduces installation time with factory-wired cabinets
- Optional factory-installed APC Battery Management System increases battery life

APC™
by Schneider Electric

Features and Benefits

High power density in a safe, compact, easy-to-maintain design

The APC Symmetra MW Battery Cabinets provide a standard battery solution for the Symmetra MW line, eliminating the need to configure custom battery solutions. Standardizing the installation of third-party, front-access battery solutions increases your control over battery runtime costs while simultaneously reducing the time and effort required to design, order, and install the battery solution.

Right-sizing your battery solution, which reduces capital expenditure and limits environmental impact, is simple with the Value Battery Cabinet. Each 2-cabinet battery string adds 5 minutes of runtime per 400kW of load, and our intuitive battery runtime calculator defines the battery requirements of sites with unique runtimes or capacities. Flexible ordering options allow you to purchase a fully-populated cabinet or to customize your power protection solution by ordering battery cabinets for front-access batteries you purchase separately.

Unlike conventional top-terminal battery cabinets, the Symmetra MW Value Battery Cabinet never requires a repairperson or installer to reach over exposed battery terminals that present a shock hazard. With front-access batteries, you can quickly perform visual maintenance or locate and replace any battery that malfunctions without reaching over energized components. The battery cabinet wiring is factory-installed, which ensures that cables are neatly organized for easy identification in the field. Preinstalled wiring also reduces the risk of human error when installing batteries, and saves significant time during the installation process.

Increase the life expectancy of your batteries with the optional APC Battery Management System. Patented smart-charging technology extends battery life by monitoring and testing each battery cell and boosting individual battery cells only when needed. The Battery Management System also prevents charging problems such as over- and under-charging and thermal runaway; improves battery integrity; reduces operating costs; supports alarm notification; and keeps accurate & complete records – its event and data logs prove that your battery installation site complies with warranty terms and conditions.

Symmetra MW Battery Cabinet

Availability

Data Center Physical Infrastructure (DCPI) protected by front-access batteries
Factory-wired cabinet reduces the risk of error at installation

Manageability

Low mean time to repair with factory-wired, front-access battery connection points
Flexible ordering options
Adapt to fluctuating power needs

Safety

Front-access VRLA batteries simplify visual maintenance
All connections made at front of cabinet; no reaching over energized components
Factory-installed wiring reduces risk of installation errors

Options

APC Battery Management System
Front-access batteries
Shunt trip kit

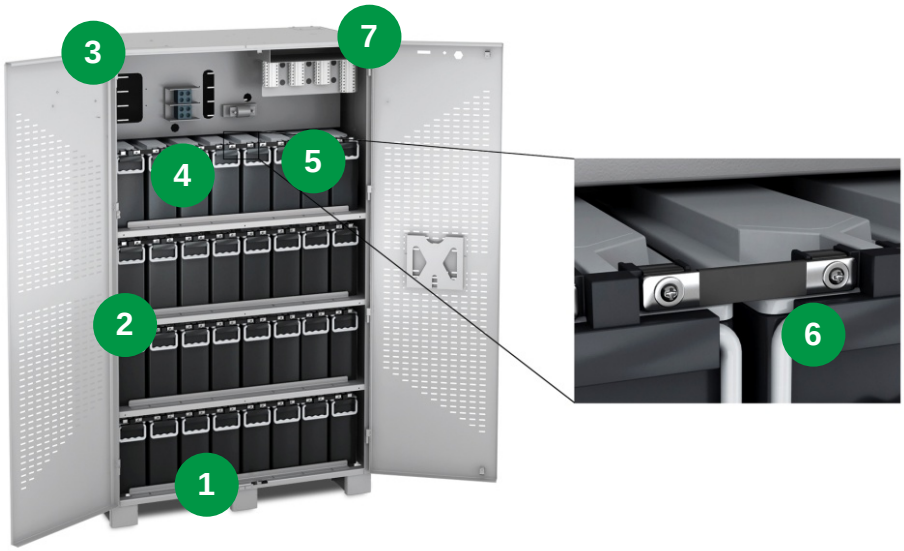
Typical Applications

Medium data centers
Large data centers

Support and Service

1-year warranty included

Symmetra Battery System Features and Benefits



1 **Seismic compliance**
Welded steel enclosure has OSHPD preapproval.

2 **High Density, Reduced Footprint**
Valve-regulated lead acid batteries improve energy density for each string.

3 **Aesthetic appearance**
Each cabinet is epoxy powder coated to match the Symmetra MW UPS.

4 **Flexible ordering options**
Purchase a fully-populated cabinet or customize your power protection solution by ordering the battery cabinet for front-access batteries you purchase separately.

5 **Front Access VRLA Batteries**
Perform maintenance safely and easily –all battery connections are made at the front of the cabinet, eliminating the need to reach over dangerously energized cables or battery terminals to install, maintain, or replace batteries.

6 **Low Mean Time To Repair**
Battery replacement time reduced by up to 80% with factory-wired, front-access connection points.

7 **APC Battery Management System**

Increase the life expectancy of your batteries with the APC Battery Management System. Include it in your initial battery cabinet purchase, or install it in the Battery Management System slot during a future upgrade. Patented smart-charging technology monitors and tests batteries and boosts individual batteries as needed.

- Prevent charging problems such as over- and under-charging and thermal runaway
  - Increase battery life
  - Improve battery integrity
  - Reduce operating costs
- Keep accurate and complete records – event and data logs prove that your battery installation site complies with warranty terms and conditions

Specifications

Battery Cabinet	
Output voltage	13.5 to 13.74 VCD
Maximum voltage drop @ load connection cables	1.5 VDC
Cable size: output terminal blocks, fuse blocks, disconnect switches, and circuit breakers	500 MCM
Batteries	
Battery type	Front-access valve regulated lead-acid (VRLA)
Battery volt amp-hour capacity	171
Battery cabinets per string	2
Batteries per string	64
Nominal string voltage	768
Expected battery life (years)	3 to 5
Battery output voltage	12
Watts	626
Mechanical	
Dimensions (HxWxD)	1981.2 x 1168.4 x 660.4 mm (78 x 46 x 26 in)
Weight	2224.42 kg (4904 lb)
Environmental	
Operating temperature	20 to 30°C (68 to 86°F)
Storage temperature	0 to 40°C (32 to 104°F)
Operating/storage humidity	0 to 95%
Operating elevation	0 to 9,000 m (0 to 30,000 ft)
Storage elevation	0-15,000 meters (0-50,000 ft)
Battery Cabinet Compliance	
UL 1778, cUL Listed, OSHPD	

For more information about the Battery Management System, see the APC Battery Management System product page on apc.com.

Preliminary – subject to change without notice