

UPS for Control System MCC

ASSA ABLOY

ASSA ABLOY Entrance Systems

The global leader in
door opening solutions



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UPS for Control System MCC

UPS for MCC Control System and operation after mains Power

- Compact unit with a high peak power 2kW
- Complete self-diagnostics monitor all internal functions (chargers, UPS-electronic and batteries) and provides an alarm when it is time to replace batteries
- Controlled by Door Control System Albany MCC
- Automatic shutdown at risk for deep discharge of batteries
- Battery voltage is electrically separated from the voltage / AC drive, 24VDC
- Idle consumption around 10W
- Main switch on front door to disconnect the intermediate DC-voltage from the control system and shutdown of the UPS
- IP55 cabinet available, stainless steel as an option
- Panel with LED for status indication

Function

The UPS is a unit that gives the door control system power in case of a power failure. It can be connected to every door equipped with a MCC control system. The UPS is connected to charged as well as give power to the DC link in the MCC. A signal from MCC controls if the UPS shall give power or charge. On power failure the UPS will supply the door control system with power to continue operating the door.

In UPS mode the door can be opened and closed by the MCC Display unit and actuators connected to the door. For energy efficiency reasons the door will open and closed with reduced speed. Depending on battery status the door can be run several times immediately after power grid failure and minimum one time up to 4 hours without main power supply.

Construction & Design

A completely welded electrical cabinet in steel sheet IP55, color RAL 7035 or option stainless steel. Well-prepared design with lockable door, LED indication on the panel with status information, and main switch on the cabinet front. It is quick and easy to install for fixed electrical installation. Easily wall mounted with supplied wall mounts and drilling template on the cardboard container. The unit is suitable for installation indoors for operation of all doors equipped with MCC system. The unit is designed to include 2 pcs of 12Ah batteries.

Modern technology

Our power electronics provides high power, enabling rapid acceleration through the AC drive. Offline mode provides low standby loss (10W). Low heat dissipation provides long battery life.

Power supply with emergency battery power

MCC controls start and stop of the UPS. The UPS charge the batteries with power from the intermediate DC-voltage of the MCC during operation.

Operations and Personal Safety

Operational safety of the UPS is ensured by built-in protection. The UPS is protected against over-load, over-current, over-temperature, short circuit and protects batteries against harmful deep discharge. For emergency shutdown, the front door is equipped with a main switch to disconnect the intermediate DC-voltage of the control system and actively stop the UPS. The batteries of the UPS are electrically isolated from the intermediate DC-voltage.

Monitoring of UPS function

By default, the UPS self-diagnosis function test, alert and protect against any internal failure tendencies. It checks charger, UPS-electronic, and battery aging. It conducts an advanced battery test and gives an alarm when it is time to replace the batteries.



- IP55 enclosure, option stainless steel
- Protected against over-load, over-current, over-temperature, short circuit and deep discharge. Equipped with main switch
- Includes two 12Ah batteries supplied assembled
- Self-diagnosis with alarms through electronical outputs

Technical data

Ambient temperature	+15°C - +30°C
Output (peak power)	2000 W
Quantity of door cycles	> 5 immediately after power failure or min. one time up to 4 hours in idle mode
Mounted Battery Capacity	2 x 12 Ah
Dimensions (height x width x depth)	380 x 380 x 210 mm
Weight (with batteries)	25,5 kg
Protection	IP 55

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