

MPS12-30

Micro Power Solutions

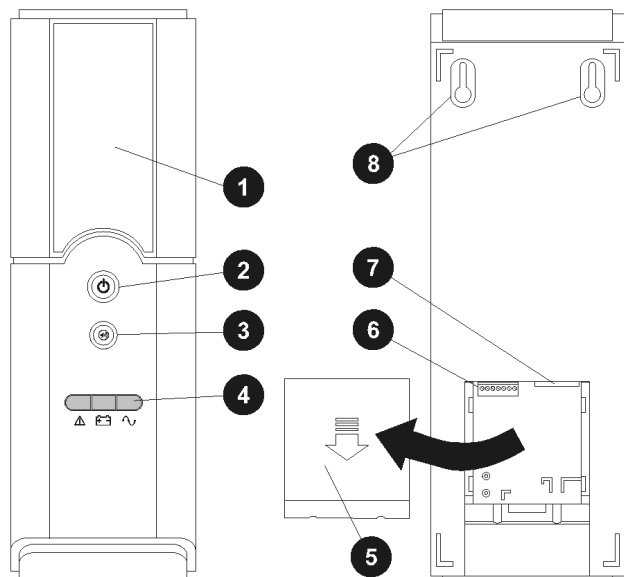


Installation and Operation Guide

EATON

Powering Business Worldwide

Front and Rear View



- | | |
|--|---|
| ① Battery cover | ⑥ DC output and alarm connector:
Pin 1: +12V dc output
Pin 2: 0V dc output
Pin 3: Alarm signal return
Pin 4: On battery
Pin 5: Replace battery
Pin 6: Battery missing
Pin 7: Low battery |
| ② AC power switch (push to switch on and off). | ⑦ AC power connector |
| ③ Alarm mute switch (push to switch off the alarm sounds). | ⑧ Wall mount screw key-holes |
| ④ Indicator lights:
~ AC on – green
+ Battery mode – yellow
! Fault - red | |
| ⑤ Connection cover | |

⚠ Warnings

- If MPS12-30 is hotter than usual, or the battery is hot or swollen, disconnect from AC socket/outlet, **switch off AC power switch (2)**, and contact your MPS12-30 supplier.
- Risk of explosion if incorrect battery type is used.
- Risk of internal damage if battery connections are reversed.
- Recycle old batteries according to local regulations. Or contact your MPS12-30 supplier for advice.

What is supplied with the MPS12-30

- Installation and Operation Guide
- AC power cord

What you will need to install the MPS12-30

- 12V dc output/alarm cables (supplied with the terminal equipment or see Specifications).
- Small, flat blade screwdriver for output and alarm connectors.
- Optional: screwdriver and screws for wall mounting.

How to connect the MPS12-30

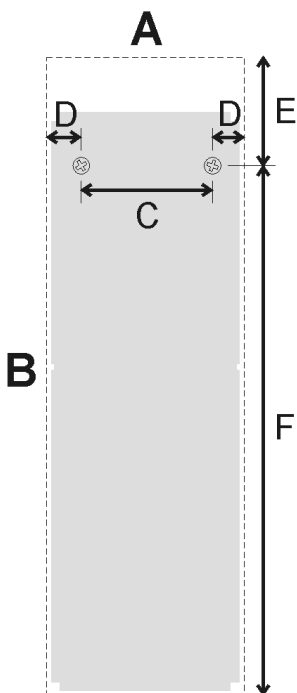
1. Unpack and check the MPS12-30.

If any item is damaged or missing contact the product supplier. Do not use the MPS12-30 if it is damaged.

2. Remove the rear cover (5).
3. Connect the dc output wires to pin 1 (+) and pin 2 (-) (6).
The alarm connections are optional. Refer to instructions with the terminal equipment.
4. Connect the AC power cord to the MPS12-30 (7).
5. Replace the rear cover.

How to mount the MPS12-30

1. Select a suitable location for the MPS12-30:
 - Close to an AC power socket/outlet. The AC power cord is the main AC disconnect device so ensure the socket/outlet is easily accessible.
 - Close to the terminal equipment. Check the length of the 12V dc output/alarm cable.
 - Protected from excessive moisture and temperature. See Specifications (on next page) for the recommended temperature range.
2. Either:
 - Mount the MPS12-30 on its back on a flat, firm surface, or
 - Mount it on a wall with two screws (see below). If needed, use wall anchors or plugs to suit the type of wall and the weight of the MPS12-30.



Minimum wall space required:

A = 130mm, B = 420mm


Screw spacing:

C = 80mm


Place the screws at least:

- 25mm from any side obstruction (D).
- 70mm *below* any obstruction (E).
- 350mm *above* any obstruction (F).







How to turn on the MPS12-30

1. Plug the MPS12-30 into the wall socket and switch on the socket. MPS12-30 will beep briefly.
2. Push in the AC power switch (2). The MPS12-30 will beep for two seconds.
3. The AC On light (green ) will flash for five minutes (the MPS12-30 is performing a battery self-test).
4. Check the Alarm mute switch (3) is out.

If the Alarm mute switch is pressed in, then the alarm will not sound to alert you to a problem (the lights will still operate).

5. Check the connected equipment is operating correctly.
6. After five minutes, check the AC On light (green ) has stopped flashing and no other lights are on.
If any other lights are on, or if the MPS12-30 beeps see below.

What the lights and alarm sounds mean

Light and Alarm Sound*	Meaning and what to do
No lights on	AC power is not connected. Action required: Check MPS12-30 is plugged into wall socket and socket is switched on. Press AC power switch (2).
Green light on 	AC power is connected. Normal operation. Action required: None.
Green light flashing 	Battery self test. Lasts for 5 minutes at turn-on and every 21 days. Normal operation. Action required: None.
Yellow light on  and beeps every 5 seconds*	The MPS12-30 is operating on battery power** because the AC power is off. Action required: Check MPS12-30 is plugged into wall socket and socket is switched on. Alarm will stop when AC power is restored.
Yellow light flashing  and beeps every second*	The battery power is low. The MPS will shortly shut down and the connected equipment will turn off. Action required: Check MPS12-30 is plugged into wall socket/outlet and socket is switched on. Alarm will stop when AC power is restored.
Red light flashing  and beeps every 2 seconds*	The battery has failed its self-test. Action required: Replace the battery (see next page).
Red light on  and beep is continuous*	Internal fault. Action required: Disconnect from the AC socket/outlet. Switch off AC power switch (2). Contact your MPS12-30 supplier for the repair or replacement procedure.

* No sound if the Alarm Mute switch (3) is pressed in.

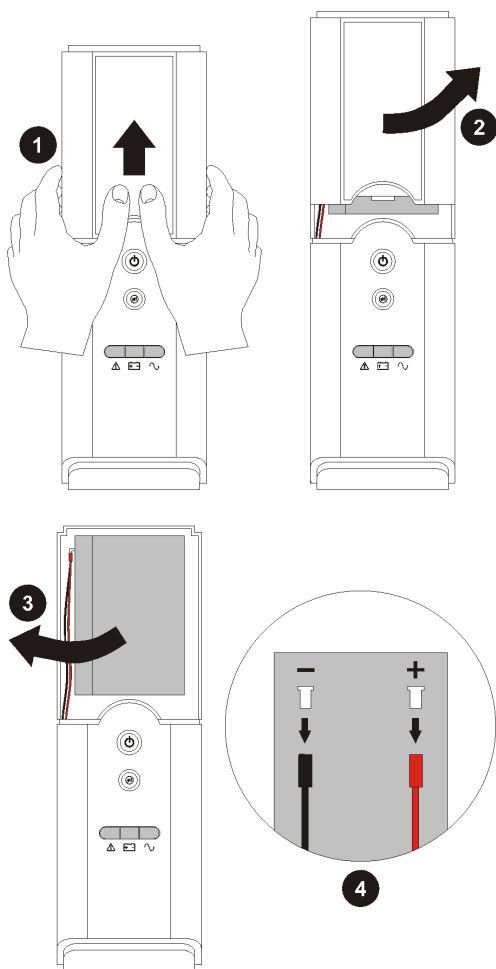
** Typically battery will last for five hours, depending on battery age and the connected equipment.

How to replace the battery

Contact your MPS12-30 supplier to purchase a replacement battery.

Warning: Risk of explosion if incorrect battery type is used.

Battery can be replaced with MPS12-30 connected to AC wall socket/outlet.



1. Press the battery cover and slide up.
2. Remove the cover.
3. Take out the battery.
4. Disconnect the battery wires.

5. Connect the wires to new battery. Red: positive (+), Black: negative (-).
Warning: Reverse connection may damage the MPS12-30.
6. Place the new battery in the MPS12-30.
7. Replace the battery cover.

Recycle old batteries according to local regulations. Or contact your MPS12-30 supplier for advice.

Specifications

AC Supply	80-260V ac, 45-65Hz
Output Voltage	12V dc nominal, 10.5 - 13.8V dc
Output Power	30W maximum
Battery Type	VRLA, Hot Swappable 12V, 7Ah (12V, 9Ah can be fitted)
Backup time (@ 1A discharge)	5 hours typical
Recharge Time	4 hours to 90%, without load after complete discharge
Discharge Prevention	10.5V \pm 0.5V
Rated Charging Voltage	13.7V \pm 0.25V
Charge Current	2.5A maximum
Output Terminals	Screw connect, maximum wire size 0.5 - 2.0mm ² / 20 - 14 AWG
Alarms	Open collector
DC output cable size	1.5mm ² / 14 AWG recommended
DC output cable length	6m / 20 feet maximum
Operating Temperature	0°C to 40°C / 32°F to 104°F
Operating Humidity	0% to 90%
Operating Elevation	0 to 3000m / 0 to 9800 feet
Dimensions	120mm W, 368mm H, 81mm D 4.7" W, 14.5" H, 3.2" D
Weight	3.5kg / 7.7 lb

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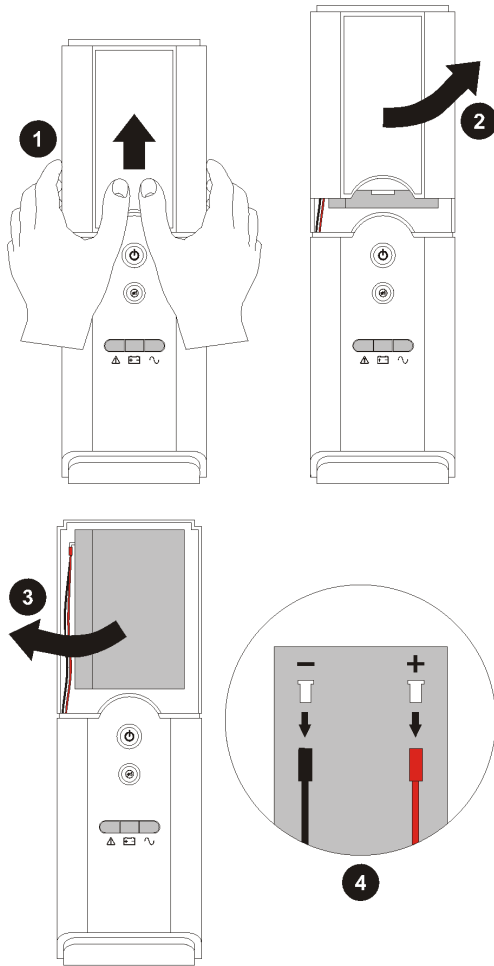
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3. Take out the battery.
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IPN: 997-00012-75A September 2009

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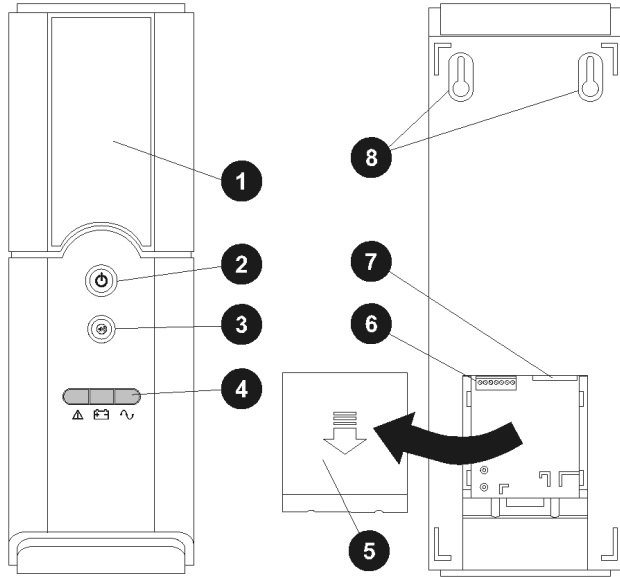


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Front and Rear View



- ① Battery cover
- ② AC power switch (push to switch on and off).
- ③ Alarm mute switch (push to switch off the alarm sounds).
- ④ Indicator lights:
 - ⤴ AC on – green
 - ⤴ Battery mode – yellow
 - ⚠ Fault - red
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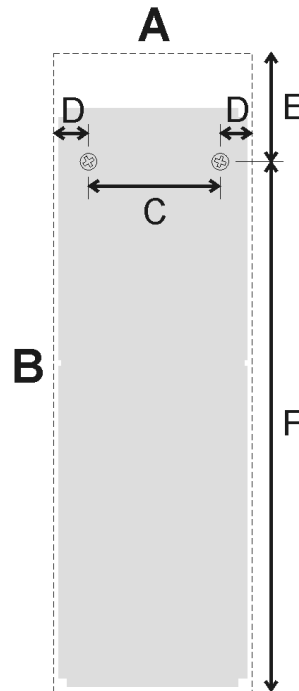
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3. Connect the dc output wires to pin 1 (+) and pin 2 (-) (⑥).
The alarm connections are optional. Refer to instructions with the terminal equipment.
4. Connect the AC power cord to the MPS12-30 (⑦).
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2. Push in the AC power switch (②). The MPS12-30 will beep for two seconds.
3. The AC On light (green ⤴) will flash for five minutes (the MPS12-30 is performing a battery self-test).
4. Check the Alarm mute switch (③) is out.
If the Alarm mute switch is pressed in, then the alarm will not sound to alert you to a problem (the lights will still operate).
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