



BOSCH
Invented for life

PBC-60 - power supply and battery charger



- ▶ Supports 12 V/7 Ah, 12 V/14 Ah and 24 V/7 Ah batteries
- ▶ Selectable 12 VDC or 24 VDC voltage output
- ▶ Selectable 5 amp @12 VDC or 2.5 amp @24 VDC current output
- ▶ Overvoltage protection
- ▶ Regulation of battery charging voltage
- ▶ On-board LED Voltage Status indicators
- ▶ Protection class II

The PBC-60 is a power supply unit with an integrated battery charging device. Includes pre-configured cable connectors for AMC controllers, I/O boards and batteries.

- If the output voltage (DC) is greater than 12 V or 24 V (depending on the mode), the green LED lights up next to DC and the DC relay is closed.
- If the battery voltage is greater than 11 V or 22 V (depending on the mode), the green LED lights up next to BAT and the BAT relay is closed.

The following applies to the battery mode:

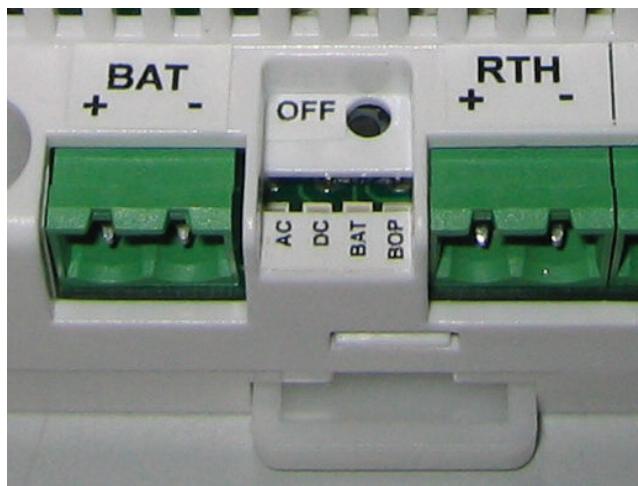
If the input voltage is less than 85 V~, the power supply switches to "Battery operation" mode and the yellow LED lights up next to BOP.

The OFF button is only activated in Battery operation mode. This button is pressed to switch the output voltage off.

Restart is only possible when the alternating current supply is restored.

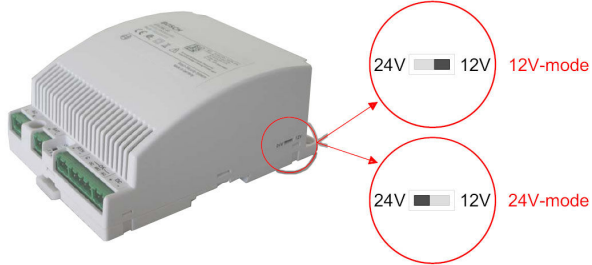
This power supply unit can be switched to 12 V or 24 V mode. To do this, the switch must be configured as shown below, when there is **no voltage input** on the power supply.

Functions



The PBC-60 includes the following LED voltage status indicators:

- If the input voltage (AC) is greater than 85 V~, the green LED lights up next to AC and the AC relay is closed.



Note:

The power supply must only be installed by qualified personnel.

Certifications and Approvals

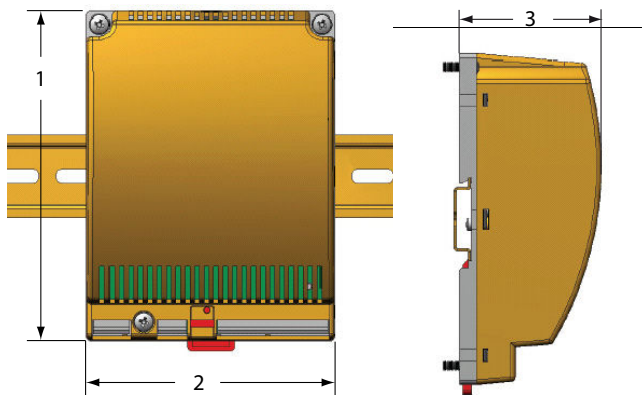
The product is classified in accordance with the following standards:

- EN 55022 Class B
- EN 55024
- EN 50130-4
- CSA/UL/IEC 60950

Installation/Configuration Notes

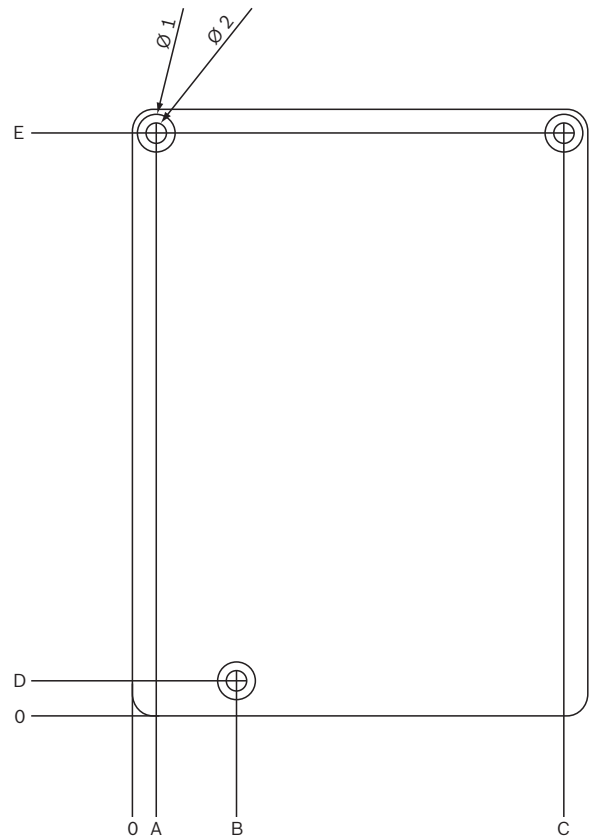
The PBC-60 can be mounted on rails and installed in the AMC housing.

The PBC-60 dimensions are shown in the diagrams below:



- 1 = Length 140 mm (5.51 in.)
 2 = Width 105 mm (4.13 in.)
 3 = Height 60 mm (2.36 in.)

Alternatively, it can be screw-mounted directly to the wall. There are pre-drilled holes for this purpose on the base of the housing. These holes have the following dimensions:

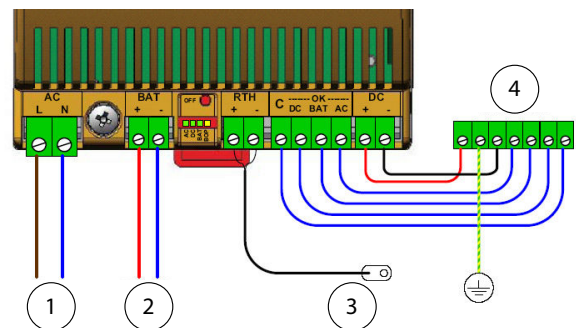


Ø 1 = 8.7 mm (0.34 in.); Ø 2 = 4.7 mm (0.19 in.)

A = 5.5 mm (0.22 in.); B = 24 mm (0.94 in.); C = 99.5 mm (3.92 in.);

D = 8.1 mm (0.32 in.); E = 134.5 mm (5.30 in.)

The following diagram shows the connections to the AMC.



1 = AC power

2 = Battery connection

3 = Temperature sensor

4 = Power supply to AMC wiring connection

Parts Included

The components supplied are as follows:

- Power supply
- Temperature sensor
- Plug
 - 1 x 2-pin for mains (primary AC) connection
 - 3 x 2-pin
 - 1 x 4-pin
- Accompanying documentation

Technical Specifications

Output values:

Output voltage:	12 V mode	10-15 V
	24 V mode	20-30 V
Output current:	12 V mode	Max. 5 A
	24 V mode	Max. 2.5 A
Output power:	60 W (constant)	

Input values:

Input voltage:	100-240 VAC, 50-60Hz
Input current (AC):	Max. 2 A, to the specified max. load at 85 V~

Output values for the battery:

Output voltage:	12 V mode	10-15 V
	24 V mode	20-30 V
Output current for charging the battery:		
	12 V mode	700 mA
	24 V mode	350 mA
Periodic battery checks - approx. every 6 minutes.		
Protection from total battery discharge:		
	12 V mode	9.5 V
	24 V mode	19 V

The power supply switches to normal operation as soon as the AC incoming voltage has normalized.

Temperature equalization is performed by an external NTC resistor.

Reverse battery protection

Environment variables:

Working temperature	-5°C (23°F) to +50°C (122°F)
Storage temperature	-20°C (-4°F) to +60°C (140°F)
Relative humidity	5% to 95%

Ordering Information

PBC-60 - power supply and battery charger APS-PBC-60

A power supply unit with an integrated battery charging device.

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