

Installation Manual

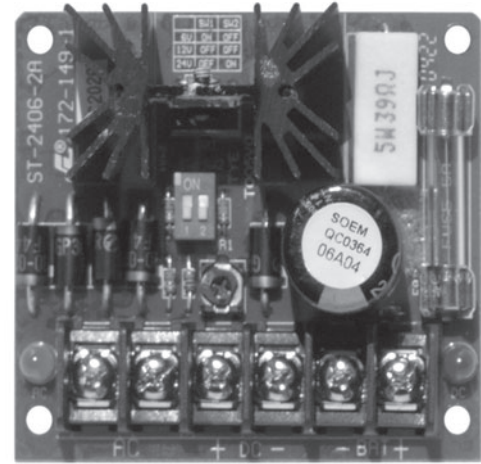
ENFORCER[®]

ST-series

Power Supplies/Chargers

Features:

- Automatic recharging of back-up batteries.
- Several models to choose from.
- Programmable DC voltage output.
- Built-in battery short-circuit protection.
- Fused output for a regulated charge.
- Automatic switch-over to the backup battery if main power is lost or cut.
- LEDs indicate power status.
- Includes foam tape and battery leads for easy installation.



M 8587 shown

What it is:

This series of power supplies/chargers ensure that alarm systems and access control systems always have enough power to do their job. Protected by fused output, input polarity protection diodes, and back-up battery polarity reverse protection, these power supplies/chargers can be used to maximize the security and efficiency of nearly any alarm or access control installation.

Model #	DC Voltage	Current (continuous)	Current (peak)	Current Output (maximum charge)	PCB Size
M 8572	6, 12, 24	1.5A	2.0A	6 V = 180mA, 12 V = 350mA, 24 V = 700mA	2 ⁷ / ₈ " x 2 ¹ / ₂ " x 1 ³ / ₈ " (73 x 64 x 35 mm)
M 8585	6, 12, 24	4.0A	5.0A	6 V = 180mA, 12 V = 350mA, 24 V = 700mA	3 ³ / ₄ " x 2 ⁷ / ₈ " x 1 ⁹ / ₁₆ " (95 x 73 x 40 mm)
M 8587	6, 12, 24	9.0A	10.0A	6 V = 180mA, 12 V = 350mA, 24 V = 700mA	5 ¹ / ₂ " x 5 ¹ / ₈ " x 2 ¹ / ₆₄ " (140 x 130 x 55 mm)

Fused Output:

The M 8572 and M 8585 models come with a 5A fuse

The M 8587 comes with a 10A fuse. Use only the correct fuses to prevent short circuits and damage to the power supplies/chargers or the alarm access control panel.

WARNING:

Connect these power supplies/chargers only to a rechargeable back-up battery. Use of a non-rechargeable back-up battery could result in damage to the power supplies/chargers or the alarm access control panel, as well as leakage or explosion of the battery.

Installation:

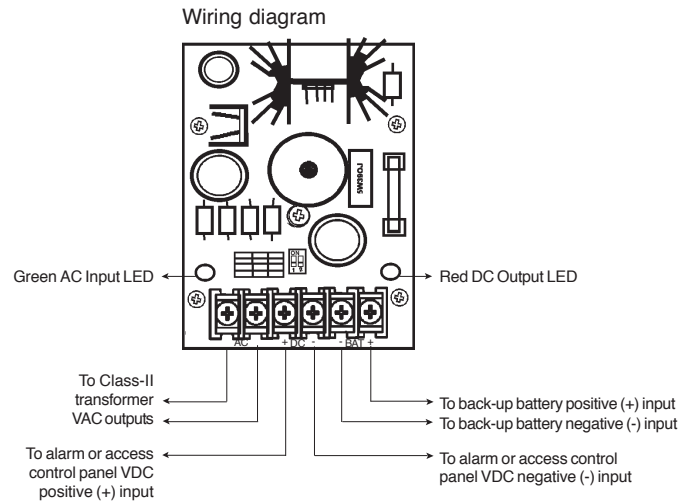
1. Mount the PC board in the desired location or enclosure. It must be easily accessible for future servicing.

2. DC Power Output Setting:

1. Set the desired DC output voltage (6, 12, or 24 VDC) of the power supply using the DIP switch.
See Table 2.
2. The default voltage output setting is 12 VDC.



Note: Products with model number that ends with "Q" or have a green "Q" sticker represents RoHS compliant products.



3. Connect the wirings to their respective terminals (see above).

- NOTE:
- a. Before connecting any external devices, temporarily power up the unit and measure the DC output voltage to avoid damage to devices. Then disconnect power before connecting external devices.
 - b. LED status — see table 3.

- WARNING:
- 1. Using a higher AC input than recommended may damage the unit.
 - 2. When a power supply/charger is used at its maximum load for an extended period of time, the heatsink portion of the power supply/charger will be very hot.
 - 3. **DO NOT USE METAL SPACERS TO MOUNT THE POWER SUPPLY'S PC BOARD.**
 - 4. Measure DC output before connecting devices.

Table 1:
Transformer selection table:

Output voltage		M 8572		M 8585		M 8587
6VDC		12VAC/20VA		16VAC/100VA		24-28VAC/180VA
12VDC		16VAC/40VA		16VAC/100VA		24-28VAC/180VA
24VDC		24VAC/50VA		24-28VAC/180VA		28VAC/350VA

Table 2:
To program DC voltage output:

Voltage	SW1	SW2
6V	ON	OFF
12V	OFF	OFF
24V	OFF	ON

Table 3:
LED status:

Green LED	Red LED	Status
ON	ON	Normal
OFF	ON	No VAC input
ON	OFF	No VDC output
OFF	OFF	No VAC input and VDC output