

Power Supply/Charger with Enclosure

ST-2406-3AEQ

Manual



The ENFORCER ST-2406-3AEQ Power Supply/Charger ensures that alarm systems and access control systems have enough power to do their job. Protected by fused battery outputs, input polarity protection diodes, and backup battery polarity reverse protection, this power supply/charger can be used to maximize the security and efficiency of nearly any alarm or access control installation. Enclosure has space for up to 2 backup batteries (leads included for one optional backup battery).

- Automatic recharging of backup batteries
- Automatic switchover to backup battery if main power is lost or cut
- Built-in battery short-circuit protection
- Low-battery cutoff
- LEDs indicate power status
- Programmable DC voltage output
- Regulated and filtered output voltage
- Fused output for a regulated charge
- Heavy-duty steel case to protect power connections
- Enclosure has space for up to two 4Ah or one 7Ah backup batteries
- Includes battery leads for easy installation
- High efficiency at full load
- Heat sink free design

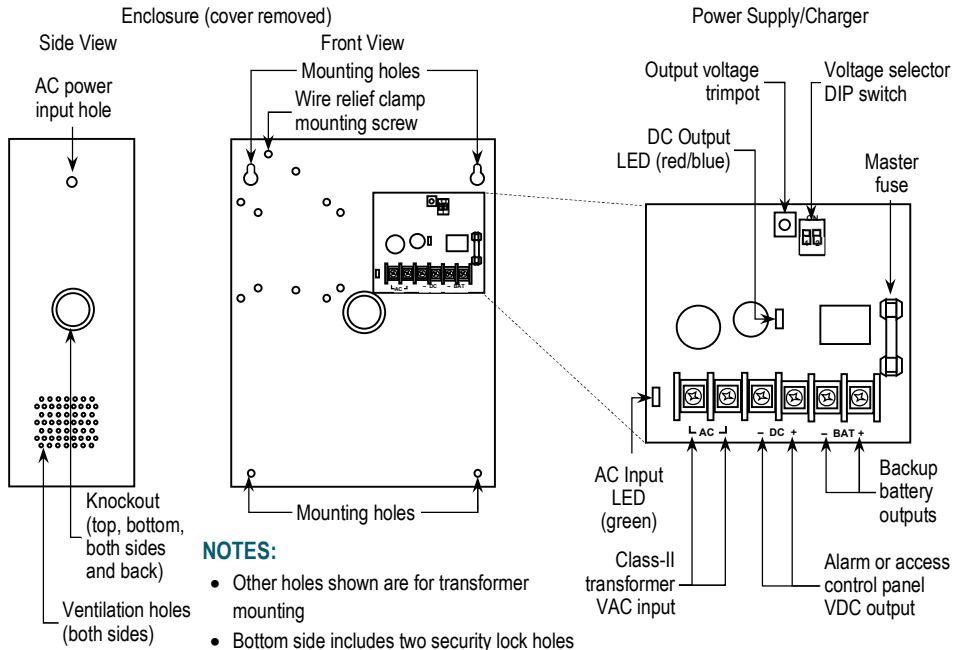
Parts List

1x Power supply/charger	3x Backup battery wire leads	1x Wire relief clamp	1x Small grommet
2x Screw-on wire nuts	1x Wire relief clamp flange nut	1x Large grommet	1x Manual

Specifications

DC Voltage	6,12,24	
Operating voltage	12~24 VAC/VDC for 6VDC, 18~24 VAC/VDC for 12VDC, 24~28 VAC or 26~28 VDC for 24VDC	
Current (continuous)	2.5A	
Current (peak)	3.0A	
Current output (max. charge)	6V=100mA, 12V=220mA, 24V=450mA	
Maximum AC input	See Transformer Selection in Table 3, pg. 3	
Master fuse	5A	
Low battery cutoff	When battery voltage is <20%	
Status	AC Input	Green
LEDs	DC Output	Red/Blue (Blue indicates 24V)
Operating humidity	Up to 90%, non-condensing	
Operating temperature	-4°~149° F (-20°~65° C)	
Dimensions	Board	2 ⁷ / ₈ "x2 ⁷ / ₈ "x1 ³ / ₈ " (73x73x35 mm)
	Enclosure	10"x7 ³ / ₄ "x3 ¹ / ₂ " (254x196x89 mm)
Weight	3-lb 15-oz(1.78kg)	

Overview



Installation

1. Mount the power supply/charger enclosure in the desired location to be easily accessible for future servicing.
2. Set the desired DC output voltage (6, 12, or 24VDC) of the power supply using the DIP switch settings as shown in Table 1.

IMPORTANT: Disconnect power before changing DIP switch settings (Default voltage output setting: 12VDC).

3. Connect a Class-II transformer with appropriate specifications (See Table 2).
4. Connect a sealed lead-acid or gel-type backup battery if desired.
5. Connect the wires to their respective terminals (see *Overview*, pg. 2 and *Notes* below). Use the supplied grommets to protect the wires entering the enclosure and secure the AC power wire with the wire relief clamp and flange nut.

Table 1:

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

Table 2:

6VDC	ST-UV16-W50Q 16VAC/50VA
12VDC	ST-UVDA-W100Q 24~28VAC/100VA
24VDC	ST-UVDA-W100Q 24~28VAC/100VA

NOTES

1. Before connecting any external devices, temporarily power up the unit and measure the DC output voltage at the device connection point to avoid damage to devices. If voltage drop is large, adjust the voltage using the output voltage trimpot (see Fig. 1). Then disconnect power before connecting external devices.
2. See ST-2406 3EAQ LED status indicators in Table 3.
3. The ST-2406-3EAQ comes with a 5A fuse. Use only the correct fuses to prevent short-circuits and damage to the power supply/charger or the alarm access control panel.
4. The automatic low-battery cutoff cuts power when battery voltage falls below 20% of the set output voltage.

Fig. 1

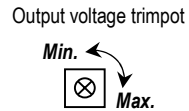


Table 3

Green LED	Red/Blue LED	Status
ON	ON*	Normal
OFF	ON*	No VAC input
ON	OFF	No VDC output
OFF	OFF	No VAC input and no VDC output

*Red=6 or 12VDC, Blue=24VDC

WARNING

1. Installation and servicing must be performed by qualified service personnel.
2. The power supply must be installed in accordance with all national and local electrical codes.
3. Do not use a higher AC input than recommended (rated max. 28VAC).
4. DISCONNECT THE POWER SUPPLY BEFORE CHANGING THE DIP SWITCH SETTINGS OR PERFORMING ANY TYPE OF SERVICE. There are no user serviceable parts inside.
5. Do not touch any exposed metal parts, electrical, or electronic components as these parts may become very hot under load.
6. Keep power-limited wiring separate from non-power-limited wiring (115VAC input, battery wires). Provide at least 1/4" (7mm) spacing.
7. Connect the power supply/charger only to a rechargeable backup battery. Use of a non-rechargeable backup battery could result in damage to the power supply/charger or the alarm access control panel.

Troubleshooting

No DC output	<ul style="list-style-type: none">• Check whether the AC input voltage or backup battery voltage is normal
Low DC voltage output	<ul style="list-style-type: none">• Check whether the output voltage setting is correct• Check whether the AC input wattage is correct (see chart, pg. 3)• If the battery is supplying power, check whether the battery voltage is normal• Check whether the power supply board is overloaded
No backup battery power	<ul style="list-style-type: none">• Check whether the battery voltage is normal or already discharged• Check whether the master fuse has burned out

IMPORTANT: Users and installers of this product are responsible for ensuring that the installation and configuration of this product complies with all national, state, and local laws and codes. SECO-LARM will not be held responsible for the use of this product in violation of any current laws or codes.

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