

ENFORCER®

ST-2406-3AEQ

Power Supply/Charger with Enclosure

Manual



Features:

- 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

ENFORCER Power Supply/Charger with Enclosure

Introduction:

SECO-LARM's 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).

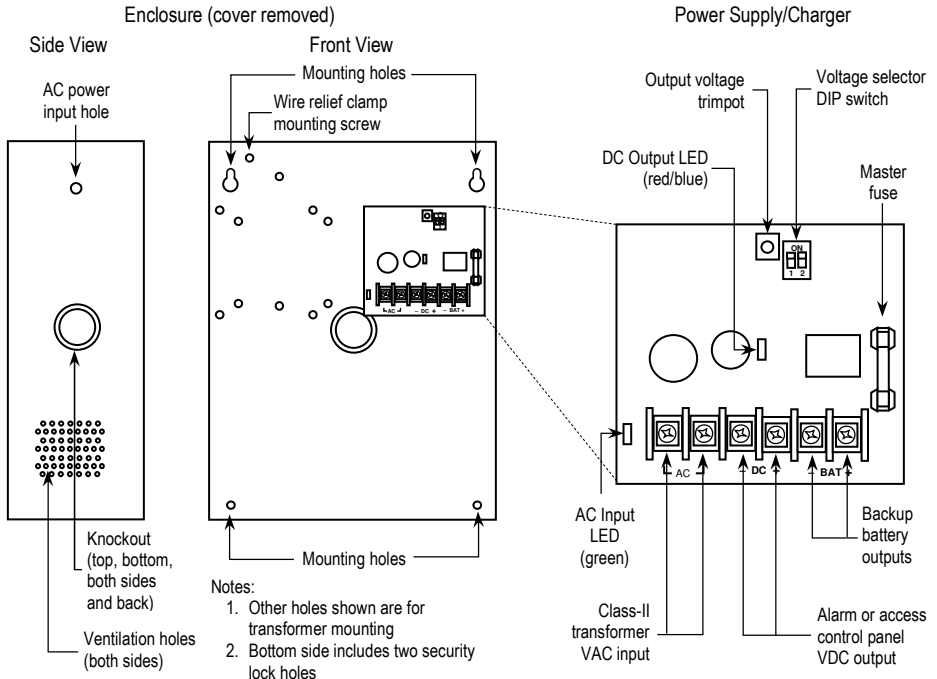
Specifications:

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
Status LEDs	AC Input	Green
	DC Output	Red/Blue (Blue indicates 24V)
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%
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)

Parts List:

1x Power supply/charger unit	3x Wire leads for backup battery	1x Flange nut for wire relief clamp
1x Wire relief clamp	2x Screw-on wire nuts	1x Large grommet
1x Small grommet	1x Manual	

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 these DIP switch settings (Note the default voltage output setting is 12VDC).

3. Connect a Class-II transformer with appropriate specifications (See Table 2 right).
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 supplies/chargers or the alarm access control panel.
4. The automatic low-battery cutoff will cut power when battery voltage drops below 20% of the set output voltage.

Fig. 1

Output voltage trimpot



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=6,12VDC, 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.

ENFORCER Power Supply/Charger with Enclosure

Also Available from **SECO-LARM®**:

<p>12VDC High-Amp Switching CCTV Power Supplies</p>  <p>PC-U1810-PULQ shown</p>	<p>Relay Boards</p>  <p>SR-2212-C5AQ shown</p>	<p>Low Battery Cutoff</p>  <p>ST-BD01Q</p>	<p>Power Supply/Charger Boards</p>  <p>ST-2406-5AQ shown</p>
<p>12VDC Plug-In AC Adapters</p>  <p>ST-UV12-S1.0Q shown</p>	<p>Power Converters</p>  <p>ST-LA130-TTQ shown</p>	<p>Plug-and-Play Backup Batteries</p>  <p>SB-L10V1-20Q shown</p>	<p>Open-Frame Transformers</p>  <p>ST-UVDA-W100Q shown</p>

Troubleshooting:

No DC output

- Check whether the AC input voltage or backup battery voltage is normal

Low DC voltage output

- 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

- Check whether the battery voltage is normal or already discharged
- Check whether the master fuse has burned out

WARRANTY: This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for 1 (one) year from the date of sale to the original customer. SECO-LARM's obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to SECO-LARM. This Warranty is void if damage is caused by or attributed to acts of God, physical or electrical misuse or abuse, neglect, repair or alteration, improper or abnormal usage, or faulty installation, or if for any other reason SECO-LARM determines that such equipment is not operating properly as a result of causes other than defects in material and workmanship. The sole obligation of SECO-LARM and the purchaser's exclusive remedy, shall be limited to the replacement or repair only, at SECO-LARM's option. In no event shall SECO-LARM be liable for any special, collateral, incidental, or consequential personal or property damage of any kind to the purchaser or anyone else.

NOTICE: The SECO-LARM policy is one of continual development and improvement. For that reason, SECO-LARM reserves the right to change specifications without notice. SECO-LARM is also not responsible for misprints. All trademarks are the property of SECO-LARM U.S.A., Inc. or their respective owners. Copyright © 2018 SECO-LARM U.S.A., Inc. All rights reserved.

SECO-LARM® U.S.A., Inc.

16842 Millikan Avenue, Irvine, CA 92606
Phone: (949) 261-2999 | (800) 662-0800

Website: www.seco-larm.com
Email: sales@seco-larm.com

 PITSW1
763-187%

ML_ST-2406-3AEQ_180620.docx