Installation Manual

ENFORCER®

ST-HB105-TTQ

Voltage Booster



Introduction:

The ENFORCER voltage booster is a step-up voltage booster. When running DC voltage over long cable runs, a voltage drops occurs. The ENFORCER voltage booster will boost the voltage to the required operating voltage to meet the system's needs. It is useful for CCTV DC cameras, access controls, as well as many other applications where voltage drop is an issue.

Features:

- Compensate DC voltage drops over long cable runs.
- Built-in overload and short-circuit protection.
- Regulated and filtered output.
- Output current protection: 500mA.
- Selectable 12 or 24 VDC output via jumper.
- Dual-color LED power output indicator:
  - Red indicates a 12 VDC output.
  - Blue indicates a 24 VDC output.
- Green power input LED indicator.
- Small size for easy installation.

Installations:

1. Remove the cover by tightly pressing the terminal block's holes and pushing the side mounting brackets outwardly.
2. Set the desired output voltage to 12 or 24 VDC. See table 3. The factory default output setting is 12 VDC.
3. Turn on the power of the power supply. Connect the output wires from the power supply to the power input terminal blocks. See specification chart for the power requirements.
4. Use table 2 to check the LED status for the input and output voltage.
5. **To avoid potential damage, use a voltage meter to check if the voltage reading at the input and output terminal blocks is correct.**
   Observe correct polarity.
   Note: 1. Use between 16 AWG and 26 AWG wire for the input and output terminal blocks.
   2. Use the included **SECO-LARM** DC pigtail connector for easy installation.
6. Connect device to the power output terminal blocks.
7. If the output voltage is low, then turn the rotary knob clockwise to increase the voltage or counter-clockwise to decrease the voltage.
   Note: If the output voltage set by the jumper is higher than the input voltage, then the output voltage stays the same.
8. Replace the plastic cover on the voltage booster and secure it in the desired location.

Specifications:

Output voltage:	12 or 24 VDC, selectable by jumper
Input voltage:	7~12 VDC for 12 VDC 12~24 VDC for 24 VDC
Maximum output current:	500mA*
LED indicators:	Power input LED (green) Power output LED (red for 12 VDC, blue for 24 VDC)
Current	PTC (Positive Temperature Coefficient)
Connector:	Terminal blocks
Overload protection:	Built-in
Short circuit protection:	Built-in
Size:	2 1/2" x 2" x 3/4" (64 x 50 x 19mm)

* This ENFORCER voltage booster's efficiency rate is 85%. For more information, please visit www.seco-larm.com for further details.

Table 1: Adjustable voltage output chart

Output voltage	Adjustable voltage range
12 VDC	12.2 ~ 13.5 VDC
24 VDC	23.0 ~ 25.2 VDC

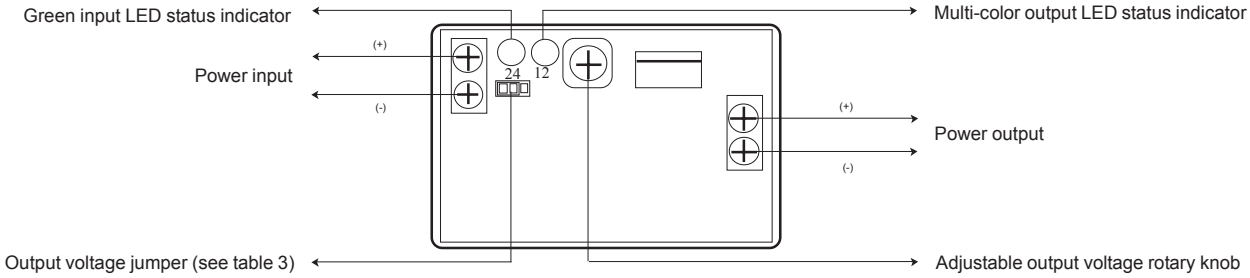
Table 2: LED indicator chart

LED colors	Indications
Green	Input power is connected.
Red	Output voltage is 12 VDC.
Blue	Output voltage is 24 VDC.

Table 3: Output voltage selection chart

Output voltage	Jumper setting A	B	C
12 VDC	□	■	■
24 VDC	■	■	□

Figure 1 - Wiring diagram



Troubleshooting:

Problem	Solution
Output voltage is low.	• Check jumper settings. • Check/Adjust output voltage adjustment. • Check input voltage - make sure it meets the input voltage requirements. (See specification chart).
Green input LED not on.	• Check input power connections with multimeter.
Blue/red output LED not on.	• Check to see whether the loading exceeds the maximum limit. • Temporarily disconnect the power output wires and then reconnect them after 30 seconds.
Output power too high.	• Check output voltage adjustments. • Check output voltage jumper settings.

Products also available from SECO-LARM:



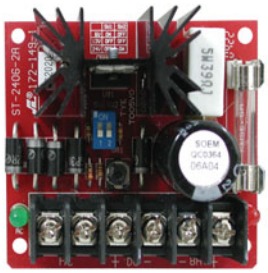
ST-LA105-TTQ
ST-LA110-TTQ

- Voltage converter.
- Selectable 5, 12, or 24 VDC output via jumper.
- Output current protection:
  – 0.5 Amp for ST-LA105-TTQ
  – 1.0 Amp for ST-LA110-TTQ
- Dual-color LED to indicate output voltage.
- Built-in overload protection.
- Regulated and filtered output.



EVT-PB1-L05Q

- Passive balun with built-in power converter.
- Video, power, and data (VPD) over Cat5.
- Built-in power converter that converts 24 VAC to 12 VDC (500mA).
- Built-in multi-color LED indicates power is on and polarity is correct.
- Built-in DC-plug power connector and data wire.



ST-2406 Series

- Power supply/charger modules.
- Converts low-voltage AC to low-voltage regulated DC.
- Choose 6, 12, 24 VDC for DC voltage.
- Adjustable voltage output.
- Available in 1.5 A, 2.5A, 4.0A, 7.0A, 9.0A for continuous supply current.
- Regulated and filtered output voltage.
- Built-in backup battery charger.

NOTICE: The information and specifications printed in this manual are current at the time of publication. However, the SECO-LARM policy is one of continual development and improvement. For this reason, SECO-LARM reserves the right to change specifications without notice. SECO-LARM is also not responsible for misprints or typographical errors. Copyright © 2008 SECO-LARM U.S.A., Inc. All rights reserved. This material may not be reproduced or copied, in whole or in part, without the written permission of SECO-LARM.

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SECO-LARM® U.S.A., Inc., 16842 Millikan Avenue, Irvine, CA 92606
Tel: 800-662-0800 / 949-261-2999 Fax: 949-261-7326
Website: www.seco-larm.com
E-mail: sales@seco-larm.com

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