



LPS3 - Linear Power Supply/Charger

Overview:

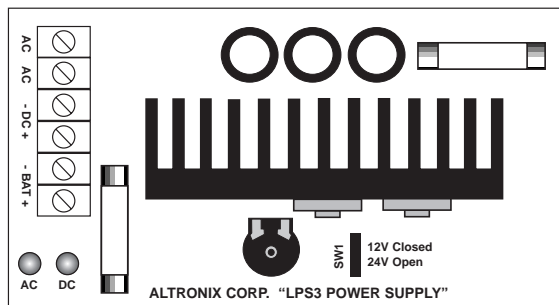
The LPS3 Linear Power Supply / Charger will convert a low voltage AC input to a low voltage 12/24VDC output. This power supply is specifically designed to provide to power needed by the most demanding security and access control applications.

Specifications:

- Field selectable 12/24VDC power limited output.
- 2.5 amps continuous supply current.
- Filtered and electronically regulated output.
- Built-in charger for sealed lead acid or gel type batteries.
- Maximum charge current 500mA.
- Automatic switch over to stand-by battery.
- AC input and DC output LED indicators.
- Over voltage protection.
- Thermal overload and short circuit protection.
- Fused battery protection (circuit breaker available).
- Efficient switch mode design.
- Includes battery leads.

Board Dimensions: 6.5”L x 3.5”W x 1.75”H

Specified at 25° C ambient.



Voltage Output/Transformer Selection Table:

Output Voltage	Switch Position	Transformer Requirements (Recommended Altronix Part #'s)
12VDC	Closed	16VAC / 56 VA (T1656)
24VDC	Open	28VAC / 100 VA (T2885)

Note: Transformers with higher VA ratings may be used.

Installation Instructions:

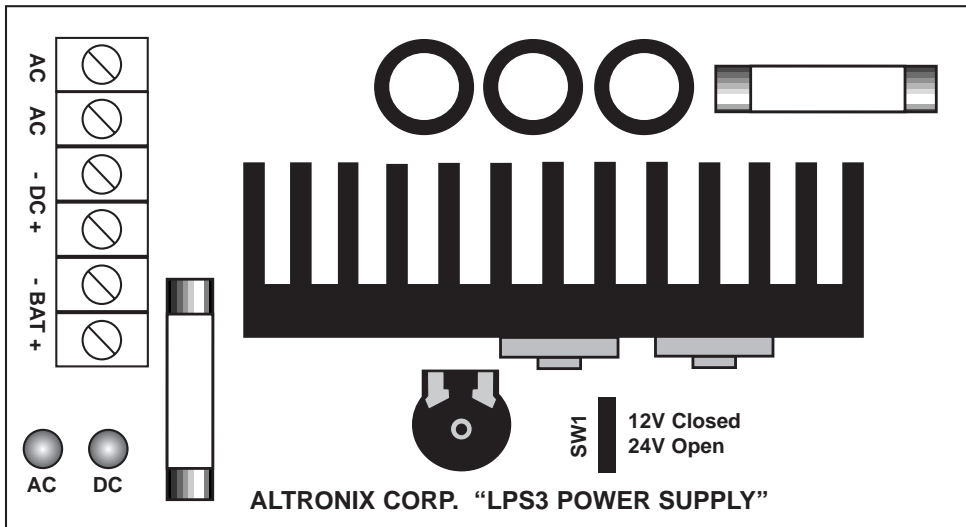
The LPS3 should be installed in accordance with The National Electrical Code and all applicable Local Regulations.

1. Mount the LPS3 in desired location / enclosure.
2. Set DC output voltage using switch SW2 (refer to voltage output/transformer selection table).
3. Connect proper transformer to terminals marked AC (refer to voltage output/transformer selection table).
4. Connect devices to be powered to terminals marked [- DC +].

Note: It is good operating practice to measure and verify output voltage before connecting devices to ensure proper operation of equipment.

5. When the use of stand-by batteries are desired, they must be lead acid or gel type. Connect battery to terminals [+ BAT -] as marked on the unit (battery leads included). Use two (2) 12VDC batteries connected in series for 24VDC operation.

Note: When batteries are not used a loss of AC will result in the loss of output voltage.



LED Diagnostics:

Red (DC)	Green (AC)	Power Supply Status
ON	ON	Normal operating condition
ON	OFF	Loss of AC, Stand-by battery supplying power
OFF	ON	No DC output. Short circuit or thermal overload condition or defective unit.
OFF	OFF	No DC output. Loss of AC. Discharged or no battery present.

Terminal Identification:

Terminal Legend	Function/Description
AC/ AC	Low voltage AC input (see voltage output/transformer selection table). For 12VDC output use 16VAC with 56VA power rating or higher. For 24VDC output use 28VAC with 85VA power rating or higher.
- DC +	12-24VDC @ 2.5 amps continuous power limited output.
+ BAT -	Stand-by battery connections. Maximum charge rate 350mA.

Altronix is not responsible for any typographical errors. Product specifications are subject to change without notice.

