



LPS3/LPS3R Linear Power Supply/Charger

Overview:

LPS3/LPS3R linear power supply/chargers convert a low voltage AC input to a low voltage 12VDC/24VDC output. These power supplies are specifically designed to provide the power needed by the most demanding security and access control applications.

Specifications:

Input:

- 16VAC or 28VAC
(refer to Voltage Output/Transformer Selection Table).

Output:

- 12VDC/24VDC selectable output.
- 2.5A continuous supply current.
- Filtered and electronically regulated output.
- Thermal overload and short circuit protection.

Battery Backup:

- Built-in charger for sealed lead acid or gel type batteries.
- Maximum charge current 500mA.
- Automatic switch over to stand-by battery.
- Fused battery protection (circuit breaker available).
- Includes battery leads.

Supervision:

- LPS3R is the same as LPS3 with AC Fail supervision (Form “C” contacts.)

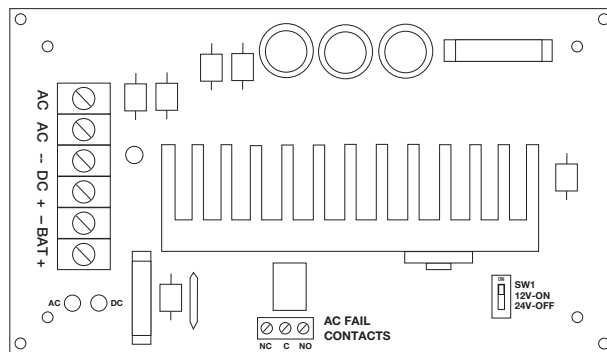
Visual Indicators:

- AC input and DC output LED indicators.

Board Dimensions (approximate):

7” x 4” x 2” (177.8mm x 101.6mm x 50.8mm)

Specified at 25° C ambient.



Voltage Output/Transformer Selection Table:

| Output Voltage | Switch Position | Transformer Requirements (Recommended Altronix Part #'s) |
|----------------|-----------------|--|
| 12VDC | ON | 16VAC / 56 VA (T1656). |
| 24VDC | OFF | 24VAC or 28VAC / 100VA (Altronix model T2428100) |

Note: Transformers with higher VA ratings may be used.

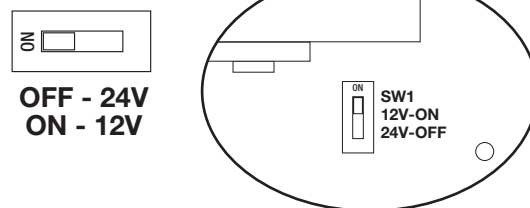
Installation Instructions:

The LPS3/LPS3R should be installed in accordance with the National Electrical Code and all applicable local regulations.

1. Mount the LPS3/LPS3R in the desired location/enclosure.
2. Set DC output voltage using switch SW2 (refer to Voltage Output/Transformer Selection Table).
3. Connect proper transformer to the terminals marked [AC] (refer to Voltage Output/Transformer Selection Table).
4. Measure output voltage before connecting devices. This helps avoiding potential damage.
5. Connect devices to be powered to the terminals marked [- DC +].
6. When the use of stand-by batteries is desired, they must be lead acid or gel type. Connect battery to the terminals marked [+ BAT -] on the unit (battery leads included). Use two (2) 12VDC batteries connected in series for 24VDC operation.
7. When batteries are not used, a loss of AC will result in the loss of output voltage.
8. Connect supervisory trouble reporting devices to outputs marked [AC Fail] (LPS3R only).

CAUTION: Do not touch exposed metal parts. Shut branch circuit power before installing or servicing equipment. There are no user serviceable parts inside. Refer installation and servicing to qualified service personnel.

Fig. 1

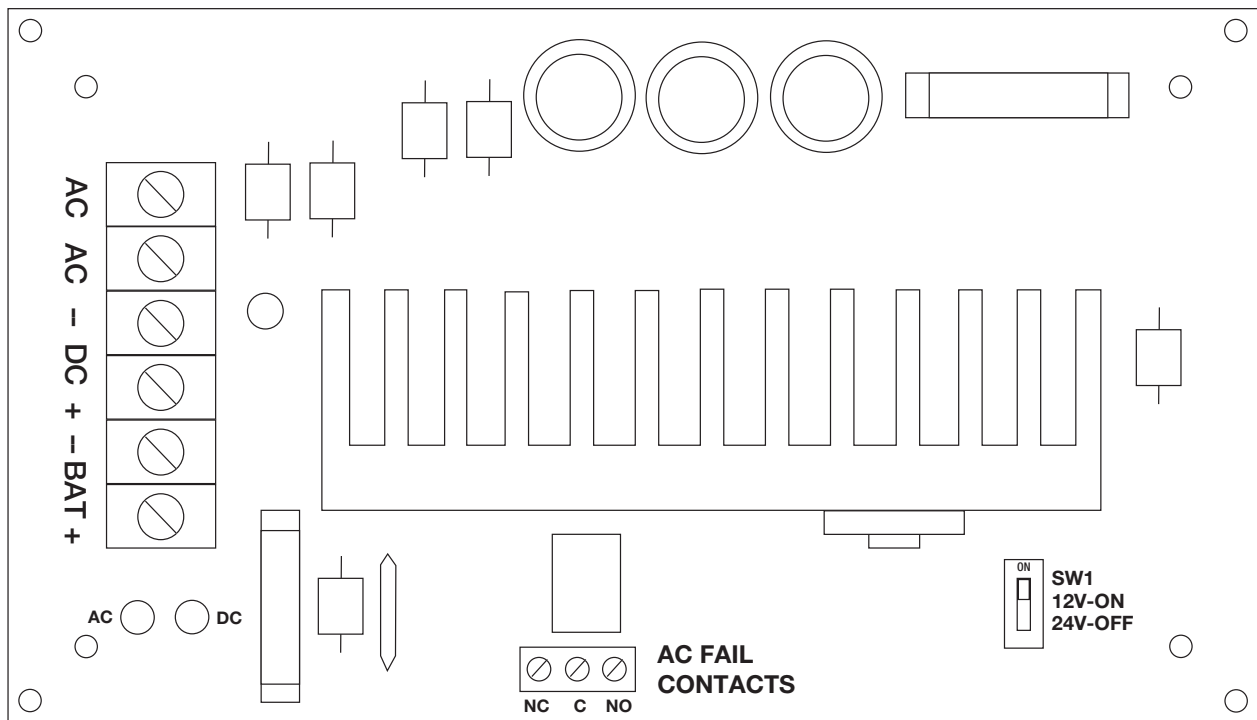


LED Diagnostics:

| 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 + | 12VDC-24VDC @ 2.5A continuous output. |
| - BAT + | Stand-by battery connections. Maximum charge rate 500mA. |
| AC FAIL NC, C, NO (LPS3R only) | Indicates loss of AC (e.g. connect to audible device or alarm panel). Relay normally energized when AC power is present. Contact rating 1A @ 120VAC / 28VDC. |



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

140 58th Street, Brooklyn, New York 11220 USA, 718-567-8181, fax: 718-567-9056
 website: www.altronix.com, e-mail: info@altronix.com. Lifetime Warranty, Made in U.S.A.
 IILPS3/LPS3R - Rev. 081004

E12P

