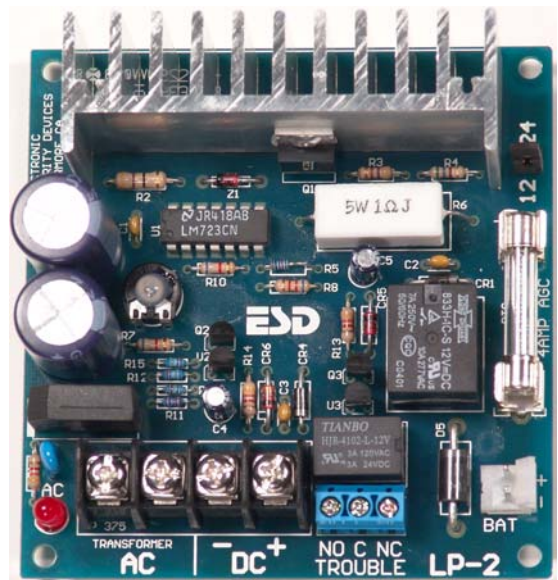


- LP-2 12/24vdc @ 2A Linear Power Supply Charger module
- LP(S)-2 12/24vdc @ 2A Supervised Power Supply Charger module (S) may be added to any configuration
- LP-4 12/24vdc @ 4A Two LP-2's connected together
- LP-2EST12 mounted in a 8"x 9" Enclosure with UL 16vac 50va Class II plug in Transformer
- LP-2EST24 mounted in a 8"x 9" Enclosure with UL 24vac 50va Class II plug in Transformer
- LP-2T12 Module with UL 16vac 50va plug in Class II plug in Transformer
- LP-2T24 Module with UL 24vac 50va plug in Class II plug in Transformer
- LP-2EX12D4 mounted in a 14"x8" Enclosure with UL 16vac 56va open frame transformer and 4 fused outputs



Features LP-2 & LPS-2:

LPS-2 Shown

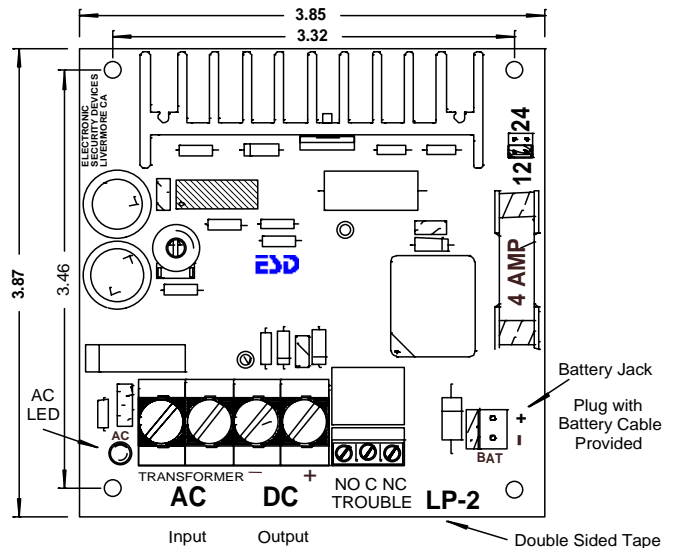
- 12/24vdc @ 2A Jumper Selectable
- Electronic Current foldback Protection
- Units may be Paralleled to Double or Triple Current
- Fused or Optional "C" PTC Circuit Breaker Battery Protection
- Reversed Battery Protected
- Precise Output Regulation for Charging Sealed Lead Acid or Gel Type Batteries
- Battery Online, No Drop or Switch Over with AC Power Fail
- Input and Output are Surge Protected
- Power LED Indicator
- Wire Ready Self Clamping Terminal Screws
- 12" Battery Leads provided with Quick Plug
- Quality Manufactured in the USA with a Life Time Warranty



LPS-2 Supervised Features:

- Trouble Relay "C" Contacts Indicates Low Battery and AC Power Fail
- Battery Cut-Off Relay Disconnects Battery(s) when Depleted Preventing Deep Discharge

Note: Use appropriate mounting hardware
Heat sink is HOT with VOLTAGE



Description

The LP-2/LPS-2 becomes an uninterruptible 2 Amp 12 or 24 volt DC power supply when used with a transformer and lead acid stand by battery. The output is clean, continuous, linear DC that can be used to power the most sensitive electronic devices. These units can be paralleled to double or triple output current.

Selecting 12v or 24v with the 12/24 programming jumper sets the DC output, battery charge voltage, trip points for the supervisory relays and foldback current limiting. The battery charger will charge a Sealed, Gel, or wet lead acid Battery.

The current the battery draws from the LP-2/LPS-2 is determined by the battery's condition, capacity,



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LP-2/LPS-2 Continued

protected against shorts and overloading with its electronic circuitry and battery fuse or PTC. This same circuitry also protects the minimum 50VA transformer. When the DC load requires more than maximum output provided by the LP-2/LPS-2, the battery can add up to 4 more amps. This may be necessary to sound a

siren for the duration of an alarm. The LP-2/LPS-2 has a replaceable 4 amp battery fuse while the LP-2C/LPS-2C has an auto resetting 4A PTC circuit breaker.

To test the LP-2, battery and fuse: It is recommended that on a regular basis, the output should be checked for proper voltage and current while the AC power is disconnected.

SPECIFICATIONS / INSTRUCTIONS

Input AC Transformer

Terminals 1 & 2 identified by AC
 12vdc at 2A DC Output 16 – 18vac at 50VA
 24vdc at 1.5A DC Output 24vac at 50VA
 24vdc at 2A DC Output 25 – 28vac at 70VA
 12vdc at 900ma DC Output 24 – 28vac at 50VA

Note: To Avoid damage to the transformer, do not use less than a 50VA (Volt Amp) rating. When selected for 12vdc output and using a 24vac transformer, limit the output current to less than 900ma.

AC LED Indicator Red LED

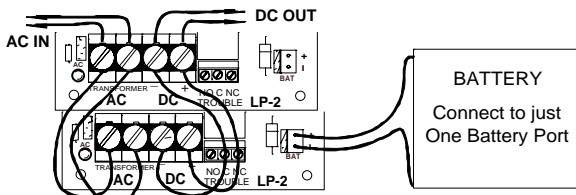
DC Output Voltage Selector 12/24 Jump

CAUTION Select voltage before applying AC

DC OUTPUT

Terminal 3 & 4 identified by DC
 DC Output voltage Nominal 12vdc/24vdc
 Output voltage Typical 13.65vdc/27.30vdc
 DC Current maximum continuous rating 1.8A
 Intermittent Current with Battery 6A
 Ripple @ 80% load 40mv pp Typ
 Short circuit with foldback current limiting Yes
 Maximum Current Output (No Battery) 2.3Amps
 Short Circuit Current (No Battery) 500ma
 1 year long term Stability03VDC

Paralleling Units for more power



Daisy chain each pin together. Pin 1 to 1, 2 to 2, 3 to 3 and pin 4 to 4. It is very important to keep the polarity of the pins the same. Use just one battery port connection and trouble relay if applicable. The VA rating for the Transformer must be at least double.

LPS-2 Supervised Functions Trbl & Bat Disconnect:

Trouble Output: 3P Terminal block - annunciates low battery & AC Fail "C" contacts rating 2A/120vac
 Trouble Trip Point 12.2/24.4vdc
 Three position trouble terminal block is marked "NO, C, NC" are shown in the Normal, energized, no trouble condition.

Battery Disconnect

Battery Disconnect Voltage 9.9vdc/19.8vdc

Battery Cutoff Relay is normally energized for fail-safe operation.

Battery Charging: (Header plug marked [-Bat+])

The battery charger is precision set to float charge 12V or 24V Sealed, Gel or wet lead acid batteries. Two 12V batteries are connected in series for 24V. A 12" battery cable assembly is provided to connect the module to a battery. Red (+) 12vdc, Black (-) Neg.

Optional 12" cable assembly for connecting two 12v batteries in series for 24volts 24SW
 Optional 36" battery cable (1) P/N: WA-36IBAT
 Amp Hour capacity range 4AH-100AH
 Battery Fuse 4A 3AGC/ 4A PTC
 Reverse battery hookup protection Yes

The recharge Rate = 2 – Load

Hours to recharge = Bat AH capacity /Amp Rate

To select battery(s), see standby selection table
www.securitypower.com/an3batby.pdf.

Environmental:

Humidity 95% RH Non Condensing
 Ts Storage Temperature -40°C – 85°C
 Ot Operating Temperature Range 100% rating:
 Ot module only -20°C – 36°C
 Ot mounted in Enclosure -20°C – 26°C
 Each 3% load reduction increases Ot by: 1°C

Mechanical Characteristics:

Center-to-Center Terminal Block Spacing with Wire ready self Clamping Screws375"
 Module Size 3 3/4"H x 3 11/16"W x 1 5/8"D
 Mounting Holes Center-to-Center 3 5/16" W 3 7/16"H
 "ES" Enclosure size 8"W x 9"H x 3.5"D
 "E" Enclosure size 14"W x 9"H x 3.5"D
 LPS-2 module 3.2oz
 8x9 Enclosure 3.8lbs
 100va Transformer 2.8lbs
 50va Plug in Transformer 1.7lbs

Safety

LP-2/LPS-2 meets safety UL1950 & EN60950
 Lead Free RoHs compliant

