

LD01105

DC POWER SUPPLY

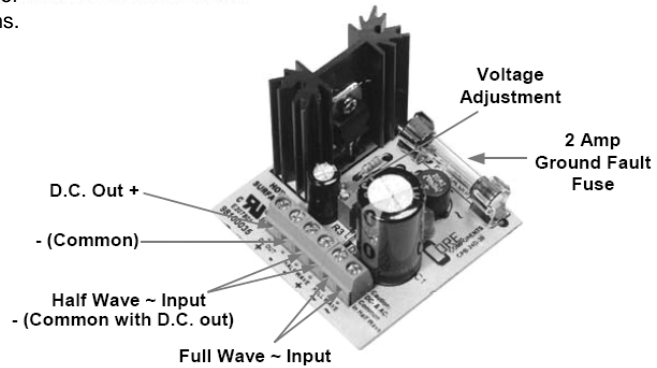
Regulated Output

Full Wave or Half Wave

Convert low voltage AC or DC power into DC regulated power for use as a power supply in HVAC and building automation systems.

- Low cost.
- 1.5 Amp maximum output current, internally limited.
- Accepts 5-35 VDC or 5-28 VAC input power.
- For Full Wave or Half Wave applications.
- DC Output is regulated and adjustable.
- Maximum output current of 1.5A, internally limited.
- Inherent protection against short circuit in output.
- Supplied with Snap-track for easy mounting.

APPROVALS: UL recognized US & Canada (File E207801).
OUTPUT RATING: 24 VDC at 1.25A maximum, 30W (factory setting); adjustable 1.2 to 28 VDC.
VOLTAGE INPUT: 5 to 35 Volts Peak (5-35 VDC, 5-28 VAC).
INPUT POWER MODE: Full or half wave AC or DC.
OUTPUT CURRENT: 1.5A maximum, internally limited.
OVER-CURRENT PROTECTION: Internal thermal overload.
OUTPUT SHORT CIRCUIT PROTECTION: Inherent.
MOUNTING: Snap-track (included).
DIMENSIONS: 2.2"W x 2.2"L x 1.94"H (5.5 x 5.5 x 4.93 cm).



APPLICATION NOTES

1. The LD01105 may be used with any inputs within the ranges of 5-35 VDC and 5-28 VAC. The input voltage should exceed the desired output voltage by approximately 5 volts. It is ideal to select an input voltage close to the required output voltage since maximum current can be obtained in this situation, i.e., for a 10 VDC output, an input of 12 VAC or 15 VDC might be selected.
2. Selecting the input power to be used.
 - ... For Full Wave AC or DC inputs, use "Full Wave" terminals. **In AC Full Wave mode, the input and output cannot share a common ground, and only isolated transformer applications should be used.**
 - ... If Half Wave operation or a DC power source sharing a common connection is used, connect to the "Half Wave" terminals. If a common ground is required for the DC source and other system components, use the Half Wave mode and Output (-) as the common ground.
3. Install the unit using Snap-track. Following the instructions above, connect input wiring to proper terminals and then attach the output wires. The LD01105 is factory set for 24 VDC output with input power from either a 30 VDC source or a 24 VAC transformer. **Adjustment for outputs other than the factory preset 24 VDC should be made prior to connecting the load to avoid damage to other components.**
4. To adjust the output voltage to a value other than the factory preset 24 VDC, attach a voltmeter to the output terminals and adjust the onboard potentiometer to the desired setting. At the factory set 24 VDC output, the LD01105 has a maximum current rating of 1.5 Amps. When adjustments are made to the output voltage, the output current will be reduced by the ratio of the output voltage divided by the input voltage. For example, a 6 VDC output powered by a 24 VAC transformer will have a reduced output current rating of $(6V/24V) \times 1.5A = 0.375A$ (375 mA).

CAUTION: Temperature and current are internally limited to protect the LD01105 power supply; excessive current drain will cause the unit to shut down unexpectedly.

| Model | Input Voltage | Output Voltage (Factory Setting) | Output Voltage Adjustment Range | Output Current |
|---------|---|--|---------------------------------|---|
| LD01105 | 5-35 Volts Peak (5 - 35 VDC or 5 - 28 VAC) | 24 VDC @ 1.25 Amps Maximum 30 Watts | 1.2 to 28 VDC | 1.5 Amps Maximum, Internally Limited |