

ITX-83

800W - Single Output Power Supply - 12V/24V -1 Approved

Product ID: 146580

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

The Larson Electronics ITX-83 Single Output Power Supply is designed to convert commonly used AC electrical current to 12VDC @ 66 amps or 24VDC @ 33 amps (voltage selectable below). This unit features forced air cooling by built-in DC ball bearing fan, high power density of 7.3w/in³ and a built-in remote sense function. The device may be used to convert mainstream voltages to 12VDC or 24VDC, to operate a wide range of equipment, such as LED lights and other electronics with low voltage DC requirements.

Features: The ITX-83 Single Output Power Supply is an 800-watt device that offers safe conversion and utilization of commonly used voltages to 12VDC @ 66 amps or 24VDC @ 33 amps, which can be used to power low voltage, 12/24V equipment. Operators may select AC input ranges (90-132VAC/180-264VAC or 254-370VDC) using a switch. During operation, the unit stays cool through forced air cooling by built-in DC bearing fan. The device features high power density of 7.3w/in³ and a built-in remote sense function. This unit supports DC_OK signal output and a built-in remote (ON/OFF) control. It is suitable for working environments ranging between -20°C and +60°C, with a working humidity range of 20 ~ 90% RH non-condensing.

When it comes to protection, this unit offers short circuit, overload (105 -125% rated output power), over voltage (12V: 13.8V-16.2V, 24V: 28V-32.4V) and over temperature (70°C ± 5°C [TSW1] detect on heatsink of power transistor). Should overload, over voltage or over temperature occur, the unit will shut down the o/p

voltage and will either re-power on to recover (overload and over voltage) or recover automatically after temperature normalization (over temperature). The ITX-83 is NRTL Certified to UL 60950-1 and RoHS compliant.

Application: Power management, industrial, machinery, industrial automotive, computing components.

NOTE: In order to obtain the best performance and the longest operational life from these units, it is recommended that you do not exceed 75% of the unit's output amperage. To determine if this converter suits your desired application, add together the total wattage of the equipment you intend to use with this unit and divide this total by 12 volts to find the total amperage draw that will be placed upon the converter. For example, if you are using two of our LEDP10W-120E 120 watt LED lights, 120 watts divided by 12 volts is 10 amps. This would mean the ITX-83 is well suited as it would run at under 75% capacity to produce the necessary 10 amps. Running these units at 100% of their capacity can create excess heat and lead to shortened converter life.

Larson Electronics is a manufacturer and as such can build stationary and portable transformer systems to your specifications. Although we carry several models of power distribution transformer systems, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.

800W - Single Output Power Supply - 12V/24V

Device Type: Single Output Power Supply

DC Voltage: 12V @ 66 Amps, 24V @ 33 Amps

Watts: 800 Watts

Ripple & Noise: 150mVp-p (12V), 200mVp-p (24V)

Voltage Tolerance: $\pm 1.0\%$

Frequency Range: 47 ~ 63Hz

Input Voltage Range: 90-132VAC/180-264VAC, 254-370VDC (Switch Selectable)

Efficiency: 85% (12V), 88% (24V)

DC_OK Remote Signal: 3.3V ~ 5.6V (PSU Turn On), 0 ~ 1V (PSU Turn Off)

Remote Control: RC+/RC-: 0 ~ 0.8V (Power On), 4 ~ 10V (Power Off)

Leakage Current: < 2.5mA/240VAC

Protection: Short Circuit, Overload, Over Voltage, Over Temperature

Working Temp: -20 °C ~ +60 °C

Working Humidity: 20 ~ 90% RH Non-Condensing

Mount Type: Panel

Dimensions: 10.9" x 5" x 2.5"

Weight: 4.6 Lbs

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Quick Summary

NRTL Certified to UL 60950-1 Approved

RoHS Compliant

Forced Air Cooling by Built-in DC Fan

Built-in Remote Sense Function

DC_OK Signal Output

Built-in Remote ON/OFF Control

Special Orders- Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

Fax: 1-903-498-3364

E-mail: sales@larsonelectronics.com

Frequently Asked Questions (FAQ)

ITX-83

Product ID: 146580

Export Control Classification Number (ECCN): EAR99

Options:

ITX-83-Voltage

Example: ITX-83-12VDC

Voltage	
-12VDC	-12VDC
-24VDC	-24VDC

Links (Click on the below items to view):

- [HigResPic1](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)