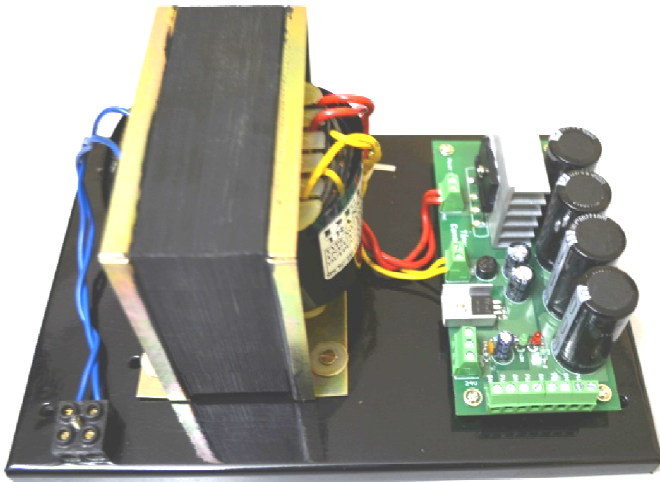




## TL-150-2 Power Supply



Document: Operation Manual  
Document #: T03  
Document Rev: 1.0

Product: TL-150-2 Power Supply  
Product Rev: 1.0  
Created: Aug, 2014  
Updated: Initial

THIS MANUAL CONTAINS INFORMATION FOR INSTALLING AND OPERATING THE FOLLOWING PRODUCT:

- TL-150-2 POWER SUPPLY

"TINY CONTROLS" AND THE TINY CONTROLS COMPANY'S LOGO ARE COPYRIGHT OF TINY CONTROLS (P) LTD. COMPANY. OTHER TRADEMARKS, TRADE NAMES, AND SERVICE MARKS OWNED OR REGISTERED BY ANY OTHER COMPANY AND USED IN THIS MANUAL ARE THE PROPERTY OF THEIR RESPECTIVE COMPANIES.

TINY CONTROLS PRIVATE LIMITED  
C-55, NISHAT PARK, KAKROLA MOR, NEW DELHI, INDIA – 110078  
WEB: <http://www.tinycontrols.com>  
PHONE: +91-991-119-3210

## General Description

The TL-150-2 is an open framed linear power supply for usage in CNC machine control panels. It is a popular power supply in the CNC industry as it is noise free, reliable and an efficient power supply working at 110-220V, 50Hz.

It can drive four unregulated outputs for easy star connection to multiple motor drives and an unregulated +24V terminal is also given. All these rectified, filtered and ripple free outputs are received through screw terminals.

The supply also drives a regulated, rectified, filtered and ripple free +12V output.

The 5 capacitors are of 2200uF/100V value each which gives a bulk capacitance of 11000uF/100V that allows for filtration of rectifier outputs.

An EI transformer is incorporated in the system allowing it to be compatible with working conditions of noisy mains, high inductance, resistance and DC offset.

Status LEDs for mains power (red colored) and +12V (green colored) output are provided on the supply board for easy diagnostics.

## Technical Specifications

Contents	Specifications
Transformer Type	EI-CRGNO
Power Supply model	TL-150-2
Output 1 (unregulated)	33 V (5 A)
Capacitor at output 1	11000 uF/ 100 V DC
No of terminals at output 1	4
Output 2 (unregulated)	24 V (800 mA)
Output 3 (regulated)	12 V (800 mA)
Max. combined current from output 2 <sup>nd</sup> + output 3 <sup>rd</sup>	1 A
Terminals for output 2-3	1 each with common GND terminal
Total transformer ratings	150 VA (continuous)
Ambient temperature range	0°-50 °C
Relative Humidity	90 % (without condensation)
Weight approx.	5 Kg