



# Linear Power Supplies - Unregulated

## Overview

International Power IP500U series unregulated power supplies are designed for low-cost, high-current applications when full regulation is not required. This rugged, highly reliable power supply line is ideal for applications such as powering solenoids, relays, DC motors, battery chargers, and DC to DC converters.

## Features

- High surge current capabilities
- Isolated AC input
- Computer-grade capacitors
- Floating output
- Full rated to 55°C [131°F]
- Open frame construction
- Secondary fuse protection
- 50A, 200V full bridge rectifier
- 2-year warranty



**IP500U36**



Unregulated Linear Power Supplies			
Power Supply	IP500U36	IP500U48	IP500U75
Price	\$350.00	\$350.00	\$364.00
Drawing	<a href="#">PDF</a>	<a href="#">PDF</a>	<a href="#">PDF</a>
VAC Input	100/240 VAC, +10%, (Primary taps provided) Frequency range: 47-63 Hz		
VDC Output @ nominal line	36.1 VDC @ 13.3 A full load 38.2 VDC @ half load 42.8 VDC @ 0A	48.8 VDC @ 13.3 A full load 52.8 VDC @ half load 56.6 VDC @ 0A	74.8 VDC @ 6.6 A full load 78.2 VDC @ half load 85.5 VDC @ 0A
DC Connections	+Out 0.250 x 0.032 fast-on at fuse block -Out (DC return) 10-32 screw/solder terminal at minus side of the capacitor		
Efficiency (typical)	75% to 80% full load		
Short Circuit Protection	Output fused @ 15A		
Line Regulation	Equal to % line change		
Load Regulation @ nominal line	9% for a 50% to 100% load change (Derate output current for 10% for 58 Hz operation)		
Output Ripple	At full load 3% RMS max		
Operating Temperature	0 to 55°C [32 to 131°F] full rated; derated linearly to 40% at 70°C [158°F]		
Storage Temperature	-40 to 95°C [-40 to 203°F]		
EMI / RFI	Inherit low conducted and radiated noise levels EMI: FCC CFR Title 47 part 15 sub-part B RFI: EN55022/CISPR22-Level B compatibility		
Vibration	MIL-STD-810G, Method 514.6, Category 1, Procedure 1 Random vibration 10Hz - 2KHz, 6.15 grams (3-axis)		
Shock	MIL-STD-810G, Method 514.6, Procedure 3 Operating: 20GPK		
Humidity	95% relative humidity maximum		
Cooling Method	High heat temperature environment, recommended forced air at 100W, 50CFM required at 250W or higher		
Mounting	No restrictions		
Weight (lb [kg])	18 [8.16]		
Housing Material	Aluminum		
Agency Approvals	UR (File # E133338), CE		

To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

## Input Jumpering and Fusing Requirements

IP500U36, IP500U48, IP500U75						
For use at	108VAC	120VAC	132VAC	216VAC	240VAC	264VAC
Jumper	1&5, 2&6	1&5, 3&7	1&5, 4&8	2&5	3&5	4&5
Apply AC	1&2	1&3	1&4	1&6	1&7	1&8
Max Current/Fuse Rating	8A	8A	8A	4A	4A	4A