

# LXV300 SERIES

IP67 AC/DC Power Supplies: 300 Watts



## Features

- **IP67 Constant Voltage** power supplies
- Universal input voltage 90 ~ 305Vac
- Active Power Factor Correction typically 0.97
- Output voltage options 12 ~ 54vdc
- IP67 waterproof enclosure
- Overvoltage protection and Short Circuit protection
- Over temperature protection
- -35°C to +70°C operation
- EN55015 Conducted and Radiated Level B
- Safety: EN61347-1 and UL8750, CE

Safety approval no: NSW24814



## Specifications

<b>Input Voltage</b>	90 ~ 305VAC
<b>Input Current</b>	3.3A @ 110Vac input
<b>Frequency</b>	47 ~ 63Hz
<b>Output Power</b>	300 watts
<b>Power Factor</b>	0.99 at 240vac
<b>Output Voltage</b>	See table, accuracy typically 5%
<b>Efficiency</b>	Model dependant 92 ~ 94%
<b>Voltage Range</b>	Fixed
<b>Minimum Load</b>	Zero
<b>Regulation-Line</b>	±1%
<b>Regulation-Load</b>	±2%
<b>Dynamic Response</b>	Voltage deviation 5% for 25~75% load step, recovery within 10ms
<b>Ripple &amp; Noise</b>	2% pk-pk, 20MHz Bandwidth With 0.1uF and 10uF capacitor connected on output
<b>Overshoot</b>	10%
<b>Turn-on Delay</b>	3sec, measured at 230vac 100% load
<b>Isolation</b>	Input ~ output: 3000VAC Input ~ Chassis: 1500VAC Output ~ Chassis: 500VDC <ul style="list-style-type: none"><li>• Input-Output isolation test not be carried out on these power supplies.</li></ul>
<b>Insulation</b>	Class I
<b>Protection</b>	OVP Latching Short circuit protection with auto recovery Over temperature protection
<b>Safety</b>	EN61347-1
<b>No Load Power</b>	No load power dissipation 3W
<b>EMC</b>	EN55015 Conducted Lev B EN55015 Radiated Lev B
<b>Immunity</b>	EN61000-4-5 ( 4KV L-E )
<b>Operating Temp.</b>	-35°C to +60°C at 100% load, 70°C @ 80% load
<b>Humidity</b>	10 ~ 100% RH
<b>IP Rating</b>	IP67 waterproof
<b>MTBF</b>	Calculated: per Telecordia SR-33 @ 25°C: 2m hrs, Lifetime: 200,000hrs
<b>Connections</b>	Input & output cable, 650 / 220mm
<b>Dimensions</b>	250 x 88 x 45mm 1.6Kg

## Description

The **LXV300** series of “Constant Voltage” **IP67** power supplies, deliver up to 150 watts in a very compact package. The high voltage input of 305vac provides a high level of reliability in industrial applications, where supply voltage is unstable.

The IP67 enclosure is perfect for a wide range of applications:

- Mining applications
- Outdoor LED applications
- Mobile applications ( with high level of immunity to vibration )
- Marine
- Communications

In addition, their high efficiency provides the most cost effective solution when electricity cost is taken into account over long periods

Model	Output V	Output A	Power W
<b>LXV300-012SW</b>	12V	22.9A	300W
<b>LXV300-024SW</b>	24V	12.5A	
<b>LXV300-036SW</b>	36V	8.33A	
<b>LXV300-048SW</b>	48V	6.25A	
<b>LXV300-054SW</b>	54V	5.55A	

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## INPUT / OUTPUT WIRING

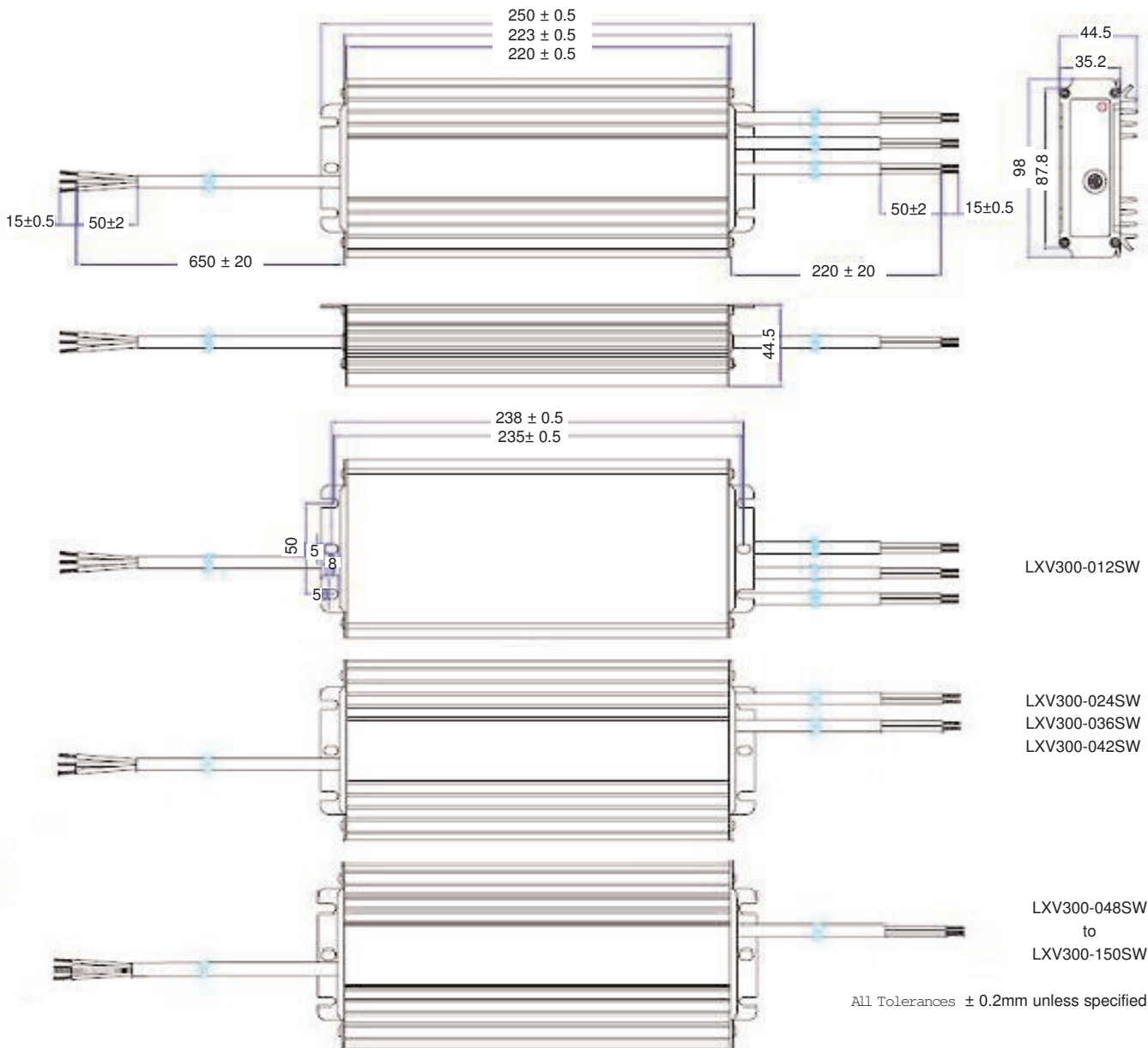
### INPUT CABLE

SJTW 18AWG 2C  
Black (L) and White(N), Green (Earth) 650±20mm

### OUTPUT CABLE

SJTW 18AWG 2C  
Black (-V) and Red (+V) 220±20mm

## MECHANICAL SPECIFICATIONS



Specifications are subject to change without notice