

# 500W, SINGLE-OUTPUT, LOW OUTPUT VOLTAGE POWER SUPPLY LVC419 SERIES - PLUG-IN MODULE

- Compact size - 4U x 304mm x 16HP
- 12VDC/40A output
- Single regulated and adjustable output
- 500W of output power with convection cooling
- Full electronic protection
- Telecom quality
- Field-proven design
- Also available in a stand-alone version
- N+1 redundancy available



The LVC419 Series of AC/DC converters uses an advanced high frequency conversion technology to generate 500W of output power at 12VDC voltage with convection cooling. This design features low component count and high efficiency. The use of professional quality components and rigorous quality control results in an MTBF exceeding 100,000 hours at 45°C. The module plugs into a pre-wired shelf which can hold up to 5 rectifiers. The rear of the shelf has terminal strips for the input and output connections.

## SPECIFICATIONS

### Input Voltage

115/230VAC +/- 15%  
47 - 63Hz  
Auto-ranging available

### Input Protection

Thermal Fuse  
Inrush current limiting

### Input Isolation

2250VDC input to chassis  
4300VDC input to output,  
8mm spacing  
500VDC output to chassis

Full compliance to IEC950, CSA  
22-2-950 and UL 1950  
Please contact factory for approval  
status for the requested  
input/output configuration

### Output Voltages

12VDC/40A  
Consult factory for other voltages

### Line/Load & Cross Regulation

+/-1% combined

### Output Over-voltage Protection

Double regulator loop

### Overload Protection

Current limiting with short circuit  
protection  
Self-resetting thermostat for  
thermal protection

### Efficiency

Min 85% at full load

### EMI

Meets En 55022 Class A

### Output Ripple/Noise

Better than 1% of output voltage  
peak to peak or 0.2% RMS of the  
output voltage (20HZ BW)

### Hold Up Time

Minimum 10ms at full load for 5%  
drop of output voltage

### Operating Temperature

0 to +50°C with convection  
cooling. Extended temperature  
range available

### Temperature Drift

0.03% per °C over operating  
temperature range

### Dimensions

Plug-in module:  
4U x 16HP x 304mm deep  
Shelf: 4U x 19" x 15" deep

### Connections:

H15 DIN connector for the  
modules  
Terminal strips on the rear of the  
shelf  
For other connectors please  
consult factory

### Warranty

Twelve months subject to  
application within good  
engineering practice

Enhancements to these general specifications and customizing can be accommodated upon request  
Designed to meet all approval requirements

**Designer and manufacturer of quality converters, inverters, UPS systems, complete rack mount systems  
and DC-input fluorescent lamp inverters since 1982. Custom or standard.  
Absopulse is a BABT-approved Facility**

**ABSOPULSE**  
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