

# 5V/65A, SINGLE-OUTPUT, POWER SUPPLY MODULE

## FVM419 SERIES - PLUG-IN MODULE

- 4U x 304mm x 16HP plug-in module
- Single, regulated and adjustable output
- 325W of output power with convection cooling
- 5V output
- Full electronic protection
- Telecom quality
- Field-proven design
- Also available in a stand-alone version
- N+1 redundancy available



The FVM419 Series of AC/DC converters uses field-proven high frequency conversion technology to generate 5V/65A of output power with convection cooling. This design features low component count and high efficiency. The use of high quality components and rigorous quality control results in an MTBF exceeding 100,000 hours at 45°C. The FVM419 module plugs into a pre-wired 19" shelf which can hold up to 5 modules or a 23" shelf pre-wired for 6 modules. The rear of the shelf has copper rails with studs for the input and output connections.

### SPECIFICATIONS

#### Input Voltage

115/230VAC +/- 15%  
47 - 63Hz  
Jumper selectable

#### 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/ Current per Module

5V/65A are standard  
Consult factory for other voltages

#### Line regulation

0.5%

#### Load Regulation

+/-1.5% from 5A load to full load  
including redundancy diodes

#### Output Over-voltage Protection

Double regulator loop

#### Overload Protection

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

#### Efficiency

Min 80% at full load

#### RFI Suppression

Meets FCC 20780 Class A  
and EN 55022 Class A  
conducted emissions as a  
minimum

#### Output Ripple/Noise

High frequency ripple is better  
than 30Vrms or 50mVpp  
(20HZ BW). 60Hz ripple is  
20mVrms maximum

#### 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 304mm x 16HP  
Shelf: 4U x 19" or 23" x 15"  
deep

#### Connections:

H15 DIN connector for the  
modules  
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**

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ELECTRONICS LTD.

**ABSOPULSE ELECTRONICS LTD**

110 Walgreen Road  
Ottawa, Ontario K0A 1L0 CANADA

Tel: (613) 836-3511 Fax: (613) 836-7488 E-mail: [absopulse@absopulse.com](mailto:absopulse@absopulse.com)  
[www.absopulse.com](http://www.absopulse.com)