

Multipurpose Power Supply Module



- Fiber-to-the-Premise power supply for multiple dwelling, multiple tenant and small business unit applications
- > Provides primary and standby power for critical communications and networks.
- Supports one or two MDU/SBU ONTs located up to 100ft from FMPS
- Battery management performs periodic battery capacity testing and status reporting to the ONT and customer
- Status indicators and audible alarm provide local status

Alpha extends its family of FlexNet FTTx powering solutions to include the FTTx Multipurpose Power Supply (FMPS) module supporting MDU, MTU and SBU ONT products. The FMPS module is an intelligent microprocessor controlled 48VDC primary and standby power supply system. The input is powered from a customer owned 90 to 320VAC power outlet. Module includes one or two parallel outputs and alarm connections, supporting distances of up to 100ft between the FMPS module and ONT. Individually monitored 48VDC strings of standard 7.2Ah maintenance free, sealed lead acid batteries provide standby power. LED indicators and an audible alarm provide local visual status, and PacketCable compliant telemetry connections to the ONT provide remote status reporting.



# FlexNet FMPS

# **Specifications**

### Input

AC Input Voltage: AC Input Frequency: Surge protection:

### Output

**Operational Output Power:** 

**Output Voltage:** Output Current: Output Power Loading:

Ripple: Noise **Output Connection:** 

Local Alarms

System LED:

Battery LED:

Replace Battery:

Replace Battery A&B (Internal):

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# **Remote Alarms**

Connection: Pin 1 Alarm Return: Pin 2 AC Fail: Pin 3 Replace Battery: Pin 4 Missing Battery: Pin 5 Battery Low:

### Local - Audible Indicator

Alarm:

# Physical

FMPS Module Dimensions (in): (cm): Weight (lb/kg): FMPS Module + Shipping Carton Dimensions (in): (cm):

Weight (lb/kg):

# Battery

Configuration:

Environment Operating:

Storage:

-40 to 46°C (-40 to 115°F) plus solar loading, 0 to 95% humidity, 0 to 10000ft -15 to 85°C (-5 to 185°F), 0 to 95% humidity, 0 to 50000ft (0 to 15000m) elevation

### Compliance

CSA/UL 60950, EN 60950, EN 55022 Class B, FCC Part 15 Class B, GR-63 Sect 4.2 Fire Resistance, GR-1089 Sect 3 Emissions, Sect 4 Lightning and AC Power Fault, Sect 7 Electrical Safety

### Warranty

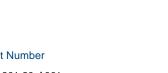
3 year repair or replace

Model Number	Description	Part Number
FN-MOD-150W	FMPS UPS Module, 150W, 48VDC, 120V/240 w/o Line Cord	747-301-20-A001
FN-MOD-150W-LC	FMPS UPS Module, 150W, 48VDC, 120V/240 w/120V Line Cord	747-301-20-A002
FN-MOD-150W-LS	FMPS Module 150W 48VDC 120V/240 w/120V Line Cord 7-ft Temp Sensor	747-301-20-A003

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### 90 to 320VAC 45 to 66Hz ANSI/IEEE Std. C62.41 to Category A, B, or C requirements, using a "Ring Wave" or "Combination" waveform, at a level of 6kV

150W continuous 170W, 10sec max. 48 to 58VDC w/AC power, 42 to 58VDC with battery 3.1A typical (crowbar limited beyond 5A DC) Following GR-909 telephone lines in various states, e.g., ringing, off-hook, on-hook, data, and video operation requirements. Less than 3mVrms Less than 100mVp-p Two terminal blocks accepting 16AWG, parallel connections

Green Steady = System Output Normal, DC Output Off = No AC or Battery Power Yellow Steady = System on Battery Off = Normal Mode Red Steady = Replace One or Two Battery Strings Off = Batteries Within Parameters Steady Red = Replace One or Both Battery Strings Off = Batteries Within Parameters

Two five position IDC 24AWG, parallel connections Open collector return reference On battery One or both battery strings failed periodic self test Less than eight batteries Battery string voltage is less than 46.8VDC

"Alarm Enable/Disable" toggle switch located on UPS Batteries Below Voltage Parameters

11.4W x 6.25H x 3.5D 28.9W x 15.9H x 8.3D 3/1.5

15W x 10H x 6.5D 38.1W x 25.4H x 16.5D 4/2

Supports four or eight 7.2Ah Valve Regulated Lead Acid (VRLA)

The Alpha Group