

# Power

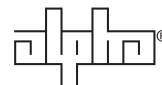
## FlexNet™ FMPS

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

### Output

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

### Local Alarms

System LED:  Green Steady = System Output Normal, DC Output  
 Off = No AC or Battery Power  
 Battery LED:  Yellow Steady = System on Battery  
 Off = Normal Mode  
 Replace Battery:  Red Steady = Replace One or Two Battery Strings  
 Off = Batteries Within Parameters  
 Replace Battery A&B (Internal): Steady Red = Replace One or Both Battery Strings  
 Off = Batteries Within Parameters

### Remote Alarms

Connection: Two five position IDC 24AWG, parallel connections  
 Pin 1 Alarm Return: Open collector return reference  
 Pin 2 AC Fail: On battery  
 Pin 3 Replace Battery: One or both battery strings failed periodic self test  
 Pin 4 Missing Battery: Less than eight batteries  
 Pin 5 Battery Low: Battery string voltage is less than 46.8VDC

### Local - Audible Indicator

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

### Physical

FMPS Module  
 Dimensions (in): 11.4W x 6.25H x 3.5D  
 (cm): 28.9W x 15.9H x 8.3D  
 Weight (lb/kg): 3/1.5  
 FMPS Module + Shipping Carton  
 Dimensions (in): 15W x 10H x 6.5D  
 (cm): 38.1W x 25.4H x 16.5D  
 Weight (lb/kg): 4/2

### Battery

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

### Environment

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

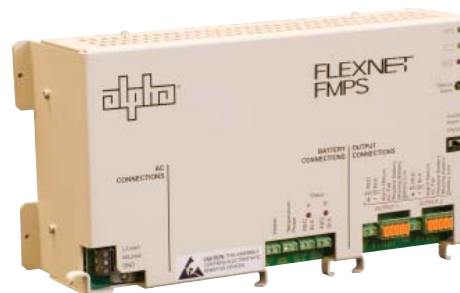
### Compliance

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



For more information visit [www.alpha.com](http://www.alpha.com)

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