

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

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