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# FlexNet™ FMPS

## 150W Multipurpose Power Supply



- 150W Fiber-to-the-premise UPS for multiple dwelling, multiple tenant and small business unit applications
- Supports one or two MDU/SBU ONTs located up to 100ft from FMPS
- Battery management functionality performs periodic battery capacity testing and status reporting to the ONT and customer
- Built-in battery heater provides extended runtime for applications in cold winter conditions
- Hybrid 16AWG & alarm cable minimizes installation labor
- Status indicators and audible alarm provide local status
- Options for dry contact and PacketCable™ compliant telemetry connections to ONT and MTA

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### **Alpha® extends its family of FTTx powering solutions to include the FTTx Multipurpose Power Supply (FMPS) supporting MDU, MTU and SBU ONT products.**

The FMPS Multipurpose Power Supply is an intelligent microprocessor controlled 48VDC UPS system. The input is powered from either a customer owned 90 to 320VAC power outlet or a hard-wired AC connection. System includes one or two parallel outputs and alarm connections, supporting distances of up to 100ft between the FMPS Multipurpose Power Supply and ONT, allowing the FMPS to be located close to existing power outlets. Individually monitored 48VDC strings of standard 7Ah to 8Ah VRLA batteries provide standby power. Built-in battery heater supports extended runtimes at -40°C. LED indicators and an audible alarm provide local visual status, and PacketCable™ and dry contact compliant telemetry connections to the ONT or MTA.

# FlexNet FMPS Multipurpose Power Supply

P/N: 010-592-20-053 FlexNet FMPS, FTX Multipurpose PS, 120V line cord, -40°C (-40°F)

Electrical	
<b>AC Input Voltage:</b>	90 to 320VAC
<b>AC Input Frequency:</b>	45 to 66Hz
<b>Surge Protection:</b>	ANSI/IEEE Std. C62.41 to Category A, B, or C requirements, using a "Ring Wave" or "Combination" waveform, at a level of 6kV
<b>Operational Output Power:</b>	150W continuous - 170W, 10 sec max.
<b>Output Voltage:</b>	<ul style="list-style-type: none"> <li>48 to 58VDC w/AC power</li> <li>42 to 58VDC with battery</li> </ul>
<b>Output Current:</b>	3.1A typical (crowbar limited beyond 5A DC)
<b>Output Power Loading:</b>	Following GR-909 telephone lines in various states, e.g., ringing, off-hook, on-hook, data, and video operation requirements.
<b>Ripple:</b>	Less than 30mVrms
<b>Noise:</b>	Less than 100mVp-p
<b>Output Connection:</b>	Two terminal blocks accepting 16AWG, parallel connections
Performance / Features	
<b>Battery:</b>	Four or eight 7.2Ah or 8Ah valve regulated lead acid (VRLA) (batteries sold separately)
Mechanical	
FMPS	
<b>Dimensions:</b>	<b>in:</b> 14W x 23.75H x 5.5D <b>cm:</b> 35.6W x 60.3H x 14D
<b>Weight:</b>	11.3kg (25lbs)
FMPS + shipping carton	
<b>Dimensions:</b>	<b>in:</b> 17W x 28.5H x 11.75D <b>cm:</b> 35.6W x 60.3H x 14D
<b>Weight:</b>	13.6kg (30lbs)
Environmental	
<b>Operating:</b>	<b>Temperature:</b> -40 to 46°C (-40 to 115°F) plus solar loading <b>Humidity:</b> 0 to 95% RH non-condensing <b>Elevation:</b> 0 to 10000ft (0 to 3000m) elevation
<b>Storage:</b>	<b>Temperature:</b> -15 to 85°C (-5 to 185°F) plus solar loading <b>Humidity:</b> 0 to 95% RH non-condensing <b>Elevation:</b> 0 to 50000ft (0 to 15000m)

User Interface	
Local Alarms	
<b>System LED:</b>	Green steady = system output normal, DC output Off = no AC or battery power
<b>Battery LED:</b>	Yellow steady = system on battery Off = normal mode
<b>Replace Battery:</b>	Red steady = replace one or two battery strings Off = batteries within parameters
<b>Replace battery A&amp;B (internal):</b>	Red steady = replace one or both battery strings Off = batteries within parameters
Remote Alarms	
<b>Connection:</b>	Two five position IDC 24AWG, parallel connections
<b>Pin 1 alarm return:</b>	Open collector return reference
<b>Pin 2 AC fail:</b>	On battery
<b>Pin 3 replace battery:</b>	One or both battery strings failed periodic self test
<b>Pin 4 missing battery:</b>	Less than eight batteries
<b>Pin 5 battery low:</b>	Battery string voltage is less than 46.8VDC
Local - Audible Indicator	
<b>Alarm on:</b>	"Alarm Enable/Disable" toggle switch located on UPS Batteries below voltage parameters
Agency 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, CE, C-Tick, RoHS 5 of 6	
Related Components	
Dry contact alarm extension kit for 4 x MTA loads P/N: 0370016-001	
Alarm relay kit for ONT loads P/N: 0370037-001	



FMPS with cover removed and two 7.2Ah battery strings installed



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