

Power

FlexNet™ MPS 48-7

MPS48-7F and MPS48-7T 50W 48Vdc Indoor/Outdoor UPS



FlexNet MPS 48-7

- › Rugged 48Vdc 50W wall or pole mountable UPS
- › LED indicators make it easy to determine status
- › Local and remote status monitoring and reporting
- › Temperature compensated battery charging for optimum battery life
- › Optional battery heater provides extended runtimes in cold conditions
- › MPS48-7F supports fiber-to-the-home applications including MDU, MTU and SBU ONT loads
- › MPS48-7T supports critical network communication loads

Alpha extends its family of FlexNet element powering solutions to include the MPS48-7F and MPS48-7T multipurpose power supplies. The MPS48-7F supports fiber-to-the-home applications including MDU, MTU and SBU ONT products. The MPS48-7T supports critical network communication loads. These units are indoor or outdoor, wall or pole mounted microprocessor controlled UPS system providing 50Watts of 48Vdc. The input is powered from 120, 240 or higher AC voltages with an optional step-down transformer. A 48Vdc string of standard 7.2Ah maintenance free sealed lead acid batteries provide standby power. The onboard microprocessor monitors and controls critical functions including temperature compensated battery charge management, periodic battery capacity testing, and local and remote status reporting providing higher service availability. A ruggedized outdoor enclosure protects against rain and lightning, and resists wind and vibration from storms or road traffic. This power supply is suited for worldwide markets.

FlexNet MPS48-7F and MPS48-7T 50W 48Vdc Indoor/Outdoor UPS

FlexNet MPS48-7F P/N: 021-511-10-030

FlexNet MPS48-7T P/N: 021-511-10-040

Electrical

AC input voltage:90 to 132, or 180 to 264Vac (switch selectable)
 or 250 to 305Vac with optional step-down transformer
 AC input frequency:47 to 63Hz
 Output power:50W continuous
 Output voltage:42 to 56Vdc
 Ripple:<250mVrms
 Noise:<2Vp-p

Performance / Features

Battery:Four x 7Ah Valve Regulated Lead Acid (VRLA)
 (Batteries sold separately)

Runtime @ 77°F (25°C)18hrs 20W load, 8hrs 40W load
 Recharge @ 77°F (25°C)..13hrs 20W load, 25hrs 40W load

AlarmsMPS48-7T: Dry contact, Visual with LED's
 MPS48-7F: Visual with LED's and electrically per PacketCable™ UPS

LED Status Indicators:

Green Steady: Output within parameters
 Green Blinking: Standby Operation
 Red Blinking: Low or Missing Battery
 Red Steady: Replace Battery

Remote – Five 24 gauge wires from UPS to ONT:

AC Fail = Output power drawn from battery
 Replace Battery = Battery has failed periodic self test
 Battery Missing = Battery is disconnected
 Battery Low = Indicates battery has <40% remaining runtime
 AC Fail = loss of service AC alarm

Mechanical

Dimensions:
 mm:.....445H x 324Wx 133D
 in:.....17.5H x 12.7W x 5.25D
 Weight (without batteries): 4.9kg (11lbs)

Environmental

Operating Temperature:
 with heater option:-40 to 55°C (-40 to 131 °F)
 without heater option: -20 to 55°C (-4 to 131 °F)
 Storage Temperature:-50 to 70°C (-58 to 158 °F)
 Humidity:0 to 95%
 Altitude:Up to 10000ft (3048M) with ambient de-rating
 Above 6000ft (1828.8m), 2°C/1000ft (304.8m)

Agency Compliance

- FCC/GR1089 Class B, CSA-NRTL\IC (CSA60950), CE, C-Tic,
- RoHS compliant per European Union's Directive
- 2002/95/EC, Restrictions of Hazardous Substances
- Seismic Zone 4 rated per GR-63
- Complies with IPx5 water intrusion criteria per IEC 60529 standard

Related Components

MPS48-7T: FlexNet Battery Backup Power Supply 48Vdc 50Watt
 Supporting the Dry Contact Alarms - including mounting bracket, battery cable kit, AC cable strain relief liquid tight fitting.
 P/N: 021-511-40

MPS48-7F: FlexNet Battery Backup Power Supply 48Vdc 50Watt
 Supporting the PacketCable Alarms - including mounting bracket, battery cable kit, AC cable strain relief liquid tight fitting.
 P/N: 021-511-30

Battery Heater Mat Kit for MPS-48-7:
 P/N: 189-078-21

MPS-SDXB: Transformer Kit, 277Vac Step-Down to 230Vac
 P/N: 745-850-22

MPS-SDXC: Transformer Kit, 347Vac Step-Down to 230Vac

AX-STDBAT-7: Battery 7.2Ah AGM Battery, 1 year warranty
 P/N: 181-036-10

AX-LONGBAT-7: Battery 7.2Ah AGM Battery, 3 year warranty
 P/N: 181-063-10

CBL-SL-25: Cable, UPS, Streetlight AC PWR Tap Cable, 2 Cond w/GND
 Lug and Wire, 25ft
 P/N: 875-580-10

MPS-AC-Cord: AC Line Cord, 5-15P Right Angle Low Profile, 8ft
 P/N: 745-863-20