Key Features

- Small, lightweight, 35 mm DIN rail mountable enclosure with UL94 V0 flame retardant rating
- 30 W power rating
- Universal AC input (UPS+) / DC input (PDU+)
- Switched-mode AC/DC conversion topology for improved efficiency*
- 4 independent DC output ports (3 x 12-15 V, 1 x 48 V)
- Line under-voltage detection
- Line over-voltage shutdown*
- 3 stage over-current protection
- Uninterrupted switching from mains to battery power*
- Multi-stage charging of external 7 Ah sealed lead acid battery*
- Automatic load disconnect to protect battery*
- Battery state-of-health monitoring*
- Current measurement of individual output ports
- Switching of individual output ports
- Communications with IMS equipment (e.g. netSP), for monitoring, control and blackout warning
- Remotely upgradable firmware via netSP and/or Synapse SP

Specifications

**ELECTRICAL**

**GENERAL:**
- Rated power: 30 W

**INPUT (UPS+):**
- Phase: Single phase and PE
- Line voltage: 90 - 260 V AC
- Line frequency: 50 - 60 Hz

**INPUT (PDU+):**
- Voltage: 10 - 18 V DC

**ONLINE OUTPUT:**
- Output voltage: 3 x 15.5 V DC, 1 x 48 V DC
- Line voltage regulation: < 1 %
- Load voltage regulation: 1.5 %
- Efficiency: @5 W load: 75 %
  @full load: 82 %

**ON-BATTERY*/ PDU+ OUTPUT:**
- Output voltage: \( V_{\text{bat}} / V_{\text{DC}} \)
- Self current: 10.6 mA

**EXTERNAL BATTERY*:**
- Chemistry: Sealed Lead Acid (SLA)
- Nominal voltage: 12 V
- Capacity: 7 Ah
- Load disconnect voltage: 10 V
- Charging: 3 stage

**PHYSICAL:**
- Mass: 650 g
- Dimensions:
  - Height: 180 mm
  - Width: 52 mm
  - Depth: 165 mm

**ENVIRONMENT:**
- Operating Temperature: 40 - 85°C
- Humidity: 20 - 80 % relative humidity, non-condensing

**EXTERNAL INTERFACES**
- Mains line power inlet*: universal IEC EN60320 C14 connector.
- Battery port*/ DC Input: 3-wire pluggable screw terminal connector (3rd wire is chassis earth).
- Mechanical output override switch for disconnection of all output ports.
- RS-232 (3-wire) port via RJ45 jack for communications, monitoring and control.

**NOTES:**
1. Over-current protection on individual output ports by firmware and self-healing fuses, on all ports by AC/DC converter via hardware feedback and fused AC input.
2. Electrical specifications measured at 25°C and 220 V AC input voltage unless otherwise specified.
3. Nominal no-load voltage accurate to within 2%.
4. Measured using 33% and 93% of full-load.
5. The on-battery output voltage is the voltage on the battery less internal losses (typically a few hundred millivolts). The DC-powered output is equal to the DC input voltage less internal losses.
7. To avoid voiding of equipment warranty, the external enclosure should have an Ingress Protection Rating of at least IP65. Suitable, customised, pre-wired enclosures are available from IMS upon request.
8. Not applicable for PDU+

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