

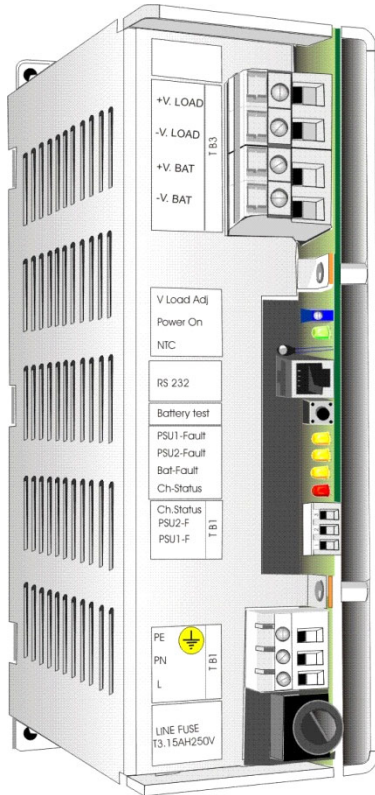
PU-A0003-1

Power Unit

This unit is composed of a max 2.5A feeder and an integrated battery charger that supplies two 12V-14Ah batteries.

The batteries are charged separately from the load and, in case of main supply failure or fault, they are switched on to the load immediately, which ensures no interruption.

In normal conditions, the batteries are subject to trickle charging and are checked, every 30 seconds, for their presence and functionality.



Main Characteristics

- Suitable to build up power supply groups certified to EN 54-4
- Meets the requirements of 54-4:1997/A2:2006
- Check of battery status every 30 seconds
- Input voltage variable between 22 and 28 VDC
- 1.8A available for load (VLOAD) with flat batteries
- Maximum current to batteries electronically limited to 0.7A
- Input supply from 110 to 240 VAC
- LED for indication of battery status
- LED for indication of battery malfunctioning
- Feeder and battery charger malfunctioning LED
- Button for manual battery testing
- RS 232 serial port for programming and control
- OC outputs for repetition of charge status and supply fault
- Efficiency 80%
- Ripple < 100mV pk/pk at maximum current
- Hold-up time on main failure 20 ms
- Dimensions 200 mm x 60 mm x 110 mm (excluding terminals)
- Operating temperature -5 to +50 °C (in open air)
- Mounting on panel back plate
- Can be used with C20 and AFP21 panels.

WIRING OF SUPPLY FROM ELECTRIC main

Terminal Block	Terminal	Name	Function
TB1	M1	L input	Phase (line protected by internal fuse)
	M2	N input	Neutral
	M3	PE	Ground

WIRING FOR STATUS INDICATION

Terminal Block	Terminal	Name	Function
TB2	M1	PSU1-Fault	Primary supply failure output
	M2	PSU2-Fault	Secondary supply failure output
	M3	Charge Status	Charge status repetition output

WIRING TO BATTERIES AND LOAD

Terminal Block	Terminal	Name	Function
TB3	M1	- VBat	Battery negative
	M2	+VBat	Battery positive
	M3	- VLoad	Negative of supply to load
	M4	+VLoad	Positive of supply to load

General Characteristics

Input	110-240 VAC - 50/60 Hz
Maximum current	0.6 A at 240 VAC
Operating temperature	-5 to +50 °C (open air)
Relative humidity	93% (non condensing)
Efficiency	> 83%
Protection	IP20
Dimensions	175mm x 90mm x 55mm
Self Extinguishing	UL94V2
VLOAD voltage	25 VDC (adjustable between 23 and 26 VDC)
VBAT voltage	26.2 to 28.7 VDC (automatically compensated)
VLOAD current	1.8 A (flat batteries)
VLOAD	ripple < 100mV pK-pK at maximum current
Hold-up time on main failure	20 ms at maximum current (with PU-A0005)
Maximum battery current	3A
Maximum battery capacity	14 Ah

Protection

Current to batteries	automatically limited
Current to load	3A fuse (self-restoring)
Other	over voltage, short-circuit, battery polarity reversal

Reference Standards

Product	EN 54-4:1997
CPD Directive	EN 54-4/A2:2006
CE marking	EN50081-2 & EN50082-2 (industrial environment)

**CERTIFIED IN ACCORDANCE WITH EN54-4
A2:2006
(C.P.D. requirements)**

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

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