

	ON	BLINKING
●	POWER	NO MAINS POWER
●	GENERAL FAULT	NOT OPERATIONAL
●	BATTERY LOW	BATTERY REPLACE
●	OUTPUT 1 OFF	OUT1: OVER-CURRENT
●	OUTPUT 2 OFF	OUT 2: OVER-CURRENT

FPS-745 Power Supply



FPS-745 & FPS-725

EN54-4 Power Supply Units

FPS-745 & FPS-725

EN54-4 Power Supply Units



General Specifications

Power supply unit with following features and specifications:

- EN54-4 fire safety approved.
- 24 VDC (nominal) Voltage.
- 2.5 ADC and 4.5 ADC variations.
- 2 Housings for battery capacity up to 18 Amp-hours.
- Dual power (mains & battery) fail safe operation.
- Two separately controlled outputs through two corresponding inputs.
- Electronic over-current fused outputs (each output individually fused).
- Automatic or manual reset on over-current cut-off (settable for each output).
- Audio notification for faults, settable by a jumper wire (if desired).
- 5 external indicators (Power, Faults, Over-current).
- 9 internal indicators for various faults, status and output current.
- One general fault output (Dry contacts, NO/NC).
- 5 outputs based on system state (faults) for interface to BMS or remote supervision systems (Open collector).
- TCP/IP optional module for remote monitoring and integration with SmartView software.
- RS485 expansion connector (for future use).
- High quality metal enclosure.
- Efficient, switching mode power supply.

Technical Specifications

	FPS-745A	FPS-725A	FPS-745B	FPS-725B
Input Supply (mains AC):	230 VAC / 50Hz nominal			
Input Current (mains AC):	1.1 A	0.7 A	1.1 A	0.7 A
Output Current (I_{\min} to I_{\max}):	0A			
Output Current ($I_{\max a} = I_{\max b}$)*:	4.5 A DC	2.5 A DC	4.5 A DC	2.5 A DC
Charging Current:	1A	750 mA	1 A	750 mA
Charging Voltage:	27.6 V			
Output Voltage (DC):	Max 28 V DC, Min 21 V DC			
Ripple:	1 V p-p			
Fuse (AC Mains TB):	1 A 250 V			
Batteries:	Two 12V Valve Regulated Lead Acid (VRLA) batteries in series			
Maximum battery capacity:	7 Ah	7 Ah	18 Ah	18 Ah
Battery internal Resistance (max):	1.2 Ohm	2 Ohm	1.2 Ohm	2 Ohm
Deep discharge cut-off:	19 V			
Fault relay:	Dry contacts 30 V AC/DC, 2.0 A			
External Indications:	Power, Fault, Battery Low / Replace, Overcurrent 1, Overcurrent 2			
On Board Indications:	Earth fault, Current, Output fault, General Fault			
Open Collector Outputs:	Earth fault, Power fault (mains is missing), Battery replace fault, Output 1 deactivated (de-energized), Output 2 deactivated (de-energized)			
Wire Gauge (max.):	2.5 mm ² , 2 available polls per wire connection			
IP rating:	Indoor usage, Dry (IP 30)			
Environmental:	Temperature: 0 to 40 °C Humidity: 5 to 95% RH, non condensing			
Panel's dimensions (HxWxD) [mm]:	Enclosure A: 310 x 310 x 105 mm		Enclosure B: 423 x 423 x 105 mm	
Maximum battery dimensions (HxWxD) [mm]:	91 x 150 x 64 mm		155 x 175 x 87 mm	
Battery Max Weight (per unit):	2.5 Kg		6 Kg	
Weight:	3.4 Kg (without batteries) 7.4 Kg (with batteries)		5.2 Kg (without batteries) 15.2 Kg (with batteries)	

* The output current is not affected by the battery charging.