

Flatpack MPSU | 3000



POWERFUL TECHNOLOGY

Modular Power Supply Unit 19" 2U



The Flatpack MPSU 3000 has been specifically designed to meet the demand for higher density and more compact power solutions.

It is suitable for applications needing an expandable, easily serviceable and reliable power supply, fitting within a minimal space.

The Flatpack MPSU 3000 is a compact power system containing a Monitoring and Control Unit (MCU), LVD, battery and load MCBs. It can house up to two Flatpack 700 or 1500 rectifier modules.

Switch mode technology with soft switching and high switching frequency is used to minimize volume and weight and to obtain fast output voltage regulation.

The system accepts large variations on the input voltage (85-300 VAC) and draws sinusoidal current with a soft start power-up.

The Flatpack MPSU 3000 will operate in ambient temperatures up to +60°C (+140°F). At higher temperatures, each rectifier will derate the output power for self-protection.



FLATPACK MPSU 3000 2U		DC OUTPUT	
SPECIFICATIONS		Voltage	48 VDC
Max. number of rectifiers	2	Current	See Flatpack 1500 48VDC datasheet (241114.100.DS3) or Flatpack 700 48VDC datasheet (241114.400.DS3)
AC INPUT		DC DISTRIBUTION OPTIONS	
Voltage	1 phase 230 VAC 3 phase 230 VAC (Δ) 3 phase 400 VAC+N (Y)	No. of Load breakers	6 x CBI breakers (2-32A)
Frequency	45 to 66Hz	No. of Battery fuses	2 (max. 100A each)
Maximum Current	See Flatpack 1500 48VDC datasheet (241114.100.DS3) or Flatpack 700 48VDC datasheet (241114.400.DS3)	Programmable LVD	Standard: 1 LVBD (max 125A) Optional: 1 LVLD (max 125A)
Protection	Soft start Surge protection (varistors) Internal fuses (L & N) Disconnect above 312 VAC	CONNECTIONS	
MONITORING		Battery connections	Battery cable, M6 bolts
Monitoring unit	See Flatpack MCU (242072600.DS3) datasheet	Load MCB connections	Negative distribution directly from CBs. Common positive bus bars
Local operation	Menu driven software via keypads and LCD or PC (WinPower)	Alarm connections	Plug-in wire connectors rear access
Remote operation	WinPower via modem or Web NMS via SNMP-agent	OTHER SPECIFICATIONS	
Alarm relays	6 relays are standard 5 extra relays are optional	Isolation	3.0 KVAC – input and output 1.5 KVAC – input earth 1.0 KVDC – output earth
Visual indications	Green LED – System ON Red LED – Active alarm(s) LCD – system status	Operating temp.	-40 to +60°C (-40 to +140°F)
Digital inputs	5 (for monitoring of external equipment)	Storage temp.	-40 to +85°C (-40 to +185°F)
Current measurements	Battery current Rectifier current	Dimensions	482 x 300 x 89mm (2U) (wxdxh) (19 x 11.8 x 3.5") recommended cabinet depth is min 400 mm (15.7")
Alarms	Load fuse alarm	Weight	Approx. 5kg (11lbs) excl. rectifiers
	Battery fuse alarm	APPLICABLE STANDARDS	
	LVD operated	Electrical safety	EN 60950 UL 60950
	Low output voltage alarms (2 individual alarm levels)	EMC	ETSI EN 300 386 V.1.3.1 (telecommunication network) EN 61000-6-3 (emission, light industry) EN 61000-6-2 (immunity, industry)
	High output voltage alarms (2 individual alarm levels)		
	Battery capacity		
	Temperature alarm		
Symmetry alarm			

Specifications are subject to change without notice.

ORDERING INFORMATION

Part no.	Description
MF0200.000	FLATPACK MPSU 3000 2U 48VDC
241114.100	FLATPACK 1500 48V 230 VAC rectifier module
241114.400	FLATPACK 700 48V 230 rectifier module
351461.013	Operational Guide Flatpack 1500 rectifier module
100350	Basic MCU interface w/ 6 alarm relays/ rear access symmetry alarms
101825	Optional MCU interface w/ 11 alarm relays/ front access & 4 symmetry alarms

MF02002U.DS3 v.03

Location	Company	Telephone	Fax
Europe	Eltek Energy AS	+47 32 20 32 00	+47 32 20 32 10
Americas	Eltek Energy LLC	+1 815 459 9100	+1 815 459 9118
Asia/Pacific	Eltek Energy Pte Ltd.	+65 6 7732326	+65 6 7753602
China	Eltek Energy Ltd.	+852 28982689	+852 28983189
Middle East	Eltek Middle East	+971 4 887 1176	+971 4 887 1175



Franje Fuisa 12, 10000 Zagreb, Croatia
Tel: +385/ 1 / 36 36 884
Fax: +385/ 1 / 36 45 850
E-mail: microlink@microlink.hr
Web: <http://www.microlink.hr>