

The power supply is a source of uninterruptible 24V voltage to devices of:

- fire detection and fire alarm systems according to EN 54-4/A2
- smoke and heat control systems according to EN 12101-10
- other fire protection systems, in particular as stipulated in section 12.2 of the Ordinance of the Polish Minister of Interior and Administration on 20.6.2007 (Dz.U. nr 143, poz. 1002, thereafter referred to as the Ordinance)



VdS requirements

- Certificate of conformity No. 1438/CPD/0163
- Certificate of approval No. 583/DC/CNBOP/2009

The manufacturer claims the power supply complies with the guidelines 2882, 2593, 2541, 2824 and 2203. The process of testing and approval has been initiated. Ask manufacturer about forecast date of granting the approval



CHARACTERISTIC FEATURES



- **monitoring of resistance of the battery circuit (as prescribed by Amendment 2 to EN 54-4) – this feature is obligatory after August 31, 2009**
- simultaneous compliance with both EN 54-4 and EN 12101-10 – one model of the power supply serves different fire protection systems
- microprocessor controller
- full control of the charging process and the charge level of the battery
- low quiescent current
- wall box with high ingress protection IP 44
- two outputs

FUNCTIONS OF THE DEVICE

- uninterruptible 24V power supply
- battery test
- monitoring of resistance (thus also continuity) of the battery circuit
- monitoring of the rectifier's operation
- floating mode with temperature compensation
- fast charging of the battery with the charging current limitation
- protection of the batteries against too deep discharge
- monitoring of the battery fuse
- monitoring of fuses of both outputs
- monitoring of the internal temperature
- visual indication of OK operation and alarm on the box' door
- indication of a mains fault
- indication of a fault of the secondary source of power, including failed battery test or high resistance

OUTFIT

- wall box with a lock to place an internal battery pack (factory preset to cooperate with VRLA batteries)
- two LEDs to indicate the state of the power supply
- overloading protection of output and battery circuits
- built-in electronic low voltage disconnect device
- remote indication: mains failure and battery failure (NC, NO dry contacts for each alarm)
- screw terminals for both outputs and the battery pack
- input of an external alarm
- internal temperature probe

OPTIONAL OUTFIT

- tester of power supplies, type EPS-TST

MAIN PARAMETERS OF THE POWER SUPPLY

Common parameters

Input		General	
Voltage 184...230	...253V Efficiency	min 77...82%	
Output		Temperature compensation coefficient	-48mV/ °C
Floating mode voltage (25°C)	26.8V Cooling		convection
Output voltage range	20...28V	Quiescent current	max 35mA
Operational environment		Max. resistance of the battery circuit	250mΩ
Working temperature range	-25°C...+55°C, +75°C over 2h	Max. battery charging current	2A
Resistance to corrosion		Standard compliance	
	25ppm SO ₂ at +25°C & 93% humidity	Design	EN 54-4/A2 EN 12101-10
Sinusoidal vibration: 10...50Hz 50...150Hz	1g 3g	Electric safety	EN 60950-1 class I EN 61204-7
Ingress protection EN 60529	IP 44	EMC immunity	EN 50130-4/A2 The Ordinance, section 12.2.2.2 a ÷ g
Functional class EN 12101-10	A	Electromagnetic interferences	Radio disturbance EN 55022/A1 level B harmonic EN 61000-3-2 fluctuations EN 61000-3-3
Environmental class EN 12101-10	2		
Environmental class VdS 2593	II		
Environmental class the Ordinance	I		

Individual parameters

Index	Maximal output current I _{max b}	Nominal output current I _{max a}	Maximal battery capacity
EPS2-1	2.0A	1.0A	18Ah *)
EPS3-1,5 3.0A		1.5A	28Ah
EPS5-3 5.0A		3.0A	40Ah
EPS7-5	7.0A	5.0A	40Ah *)

*) A battery of capacity 18Ah could be substituted by a battery of 17Ah.

Box type	Dimensions (WxHxD), mm	Weight with batteries
1 (18Ah)	390x350x90	18kg
2 (28Ah)	390x350x140	28kg
3 (40Ah)	450x350x180	42kg

Batteries for power supplies EPS should be ordered separately.

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