

HEPHEA SERIES POWER SUPPLY

Power supply in box/CE certified

- **HEPHEA 242: Power supply 24V/2A**
- **HEPHEA 244: Power supply 24V/4A**
- **HEPHEA 248: Power supply 24V/8A**
- **HEPHEA 2412: Power supply 24V/12A**
- **CE Certified according to CPD**

References HEPHEA series identify a range of power supply boxes designed to be appropriate for the use as power unit with a reserve of energy for the supply of a fire detection installation in accordance with the Directive of the Products of Construction CPD 89/106/CEE. The electric and mechanical realization of these products is in conformity with the EN standards 54-4:1997 + A1:2002 + A2:2006, EN12101-10 and EN60950-1:2001.

The power supply units use switching technology that gives the following benefits:

- A significant reduction of dimensions and weight
- An excellent electric efficiency allowing energy saving
- An excellent stability in time

The choice of a toroidal transformer ensures a maximum safety for the operator and the supplied equipment.

The voltages present on all the circuits after the transformer are less than 60V, which reduces to the minimum the risk of accidental contact with dangerous voltages.

The power supply unit is composed of a metal box, with an index of protection of IP30. It contains the power supply block and it can receive the lead buffer batteries.

These exits are interfaced in serial with the ALK2R board which delivers two relays free of potential.

The power supply unit provides a DC voltage ranging between 20V and 28,5V according to the operational conditions and the ambient temperature (refill battery compensated in temperature).



Common characteristics

- Conform to EN54-4 and CE certified
- Low voltage circuit after transformer to reduce dangerous voltage risks
- Two led indicator
- Two electronic outputs for general fault and mains fault
- Available also in larger box
- Voltage output: <22,5V to 29

Electrical specification

	HEPHEA 242	HEPHEA 244	HEPHEA 248	HEPHEA 2412
Mains supply voltage	230V ~ (-15%, +10%) 50Hz sinusoidal		230V ~ (-15%, +10%) 60Hz sinusoidal	
Nominal output voltage	27,5Vdc ± 1,5% @ 20° with batteries disconnected			
Max capacity recommended for batteries (serial connection)	2 batteries 12V/12Ah	2 batteries 12V/24Ah	2 batteries 12V/24Ah	
Total available current	2A	4A	8A	12A
Max. available current for output	1,5A	3A	6,8A	10
Max. available current for battery refill	0,5A	1A	1,2A	2A

Mechanical characteristics

Box dimensions (mm)	405x385x160 (HxWxD) *		405x390x165 (HxWxD) *	
Weight	7kg	8kg	7kg	8kg
Material	Grey Ral 7035, IP protection: IP30			

Mechanical Characteristics Rack Version

Box dimensions (mm)	265x485x130 3U			
Material	Metal			

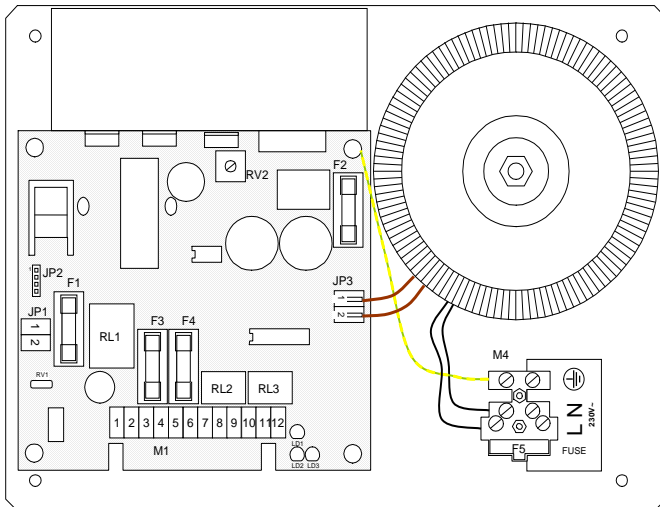
* CEAL x24B is also available in larger box: 500x425x195 (HxWxD)



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HEPHEA 242, HEPHEA 244 Connections.



Connector M1		
1	(+) output use N°1 (fuse protection F3)	
2	(-) output use N°1	
3	(+) output use N°2 (fuse protection F4)	
4	(-) output use N°2	
5	(+) Led for mains presence	
6	Not used	
7	Fault relay « RL2 »	(NO)
8	(Active with no fault)	(NC)
9	Relay power : 30V/1A	(COM)
10	Mains relay « RL3 »	(NO)
11	30V/1A	(NC)
12		(COM)

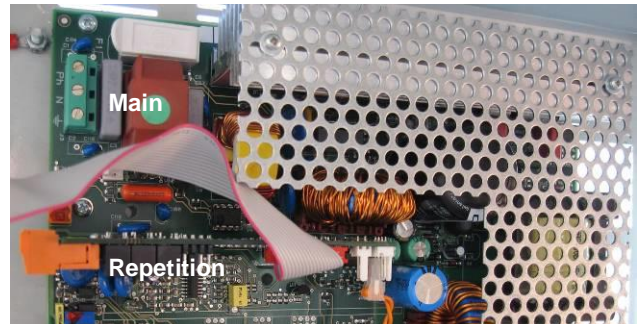
Connector M4 main power supply	
L, N	Mains Power supply input
⊕	Earth connection

Connector JP1 for batteries	
1	(+) Battery link (protection F1).
2	(-) Battery link

Connector JP3 transformer	
1, 2	Secondary connection (protection F2).

LEDs and indications	
DL1	Green led (MAINS): mains presence
DL2	Green led (SUPPLY): Battery presence
DL3	Yellow led: Fault presence
RV1	Temperature Compensation probe for battery charging
RV2	Output potentiometer – DO NOT MODIFY

HEPHEA 248, HEPHEA 2412 Connections.



Mains connector	
Ph	Phase
N	Neutral
⊕	Electrical ground

Battery connector	
+ BAT	(+) battery link (protection FBAT)
- BAT	(-) battery link

24V output 1 and 2	
UTIL1 +	(+) 24V output 1(fuse protected F8)
UTIL1 -	(-) 24V output 1
UTIL2 +	(+) 24V output 2(fuse protected F7)
UTIL2 -	(-) 24V output 2.

Relay for information Repetition	
1	NO
2	COM
3	NC

Led and indications	
Internal LED	Green: Correct operation,
	Yellow: Mains fault
	Red: Battery fault or 24V output fault
P1	Potentiometer for voltage output adjustment DO NOT MODIFY

REFERENCE

HEPHEA 242
HEPHEA 244
HEPHEA 248
HEPHEA 2412
AU224/A2/R
AU424/A2/R

DESCRIPTION

Power supply in box 24V-2A, EN54-4, CE according to CPD
Power supply in box 24V-4A, EN54-4, CE according to CPD
Power supply in box 24V-8A, EN54-4, CE according to CPD
Power supply in box 24V-12A, EN54-4, CE according to CPD
Power supply in rack version 24V-2A
Power supply in rack version 24V-4A



Non contractual document

Security Detection Direct Distribution
41 rue du saule trapu, ZA du moulin de Massy
91300 MASSY (France)

Tel : +33 (0)1 60 13 67 24
Fax : +33 (0)1 60 13 67 26
e-mail : sd3@sd3.net