

VPUPS12/24



Basic Battery Charger and DC-UPS Module











■ Main Features

- J Low cost DC-UPS with charging function of a 12 or 24Vdc battery
- J Suitable for power supplies with adjustable output
-) Allows to feed the load and to charge the battery simultaneously
- J Built-it battery overcurrent protection fuse
- J Battery deep discharge protection
- J To be used with lead acid and lithium batteries (compatible with lead acid batteries)
- J Instantaneous LOAD switch to BACKUP mode



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TECHNICAL DATA

TECHNICAE DATA		110010	VELLEGA	
Model type	VP	UPS12	VPUPS24	
OUTPUT DATA				
Load rated voltage	12'	Vdc	24Vdc	
Charging current Limit (Settable)		2.0A or 4.0A		
Load maximal current		10A 15A / 32V - Mini blade type, user replaceable		
Battery fuse Battery float voltage	[Vin 0.4V]	15A / 32V - MIIII DIAGE	[Vin - 0.4V] 26Vdc min.	
Deep discharge cut-off voltage		c ± 0.5V	18Vdc ± 0.5V	
	<u> </u>	2 1 3.5 V	75% @ 26Vdc	
Chargeable capacity of the battery	85% @ 13.5Vdc		85% @ 27Vdc	
vs power supply voltage		@ 14Vdc	100% @ 28Vdc	
"Batt. OK" LED		> 11.6Vdc ± 0.2V	ON for U Batt. > 23.5Vdc ± 0.2V	
"Batt. LOW" LED	ON for U Batt. <	< 11.6Vdc ± 0.2V	ON for U Batt. < 23.5Vdc ± 0.2V	
Protections	■ Battery short-circuit/c	Battery short-circuit/overload		
Status Signals	BATT. OK - green LED BATT. LOW - red LED REVERSE POLARITY -	LOAD OK - amber LED BATT. OK - green LED		
INPUT DATA				
Input DC rated voltage	13 14 5Vdc	(UL certified)	2628.5Vdc (UL certified)	
from power supply	1514.5 vac	(Oz certinea)	2020.5700 (02 001 01100)	
Input DC rated current		3	10A	
GENERAL DATA				
Operating temperature ¹		- 40°C+ 70°C UL certified up to 60°C		
Derating		- 0.25A/°C over 60°C		
Storage temperature		- 40°C+ 80°C		
Humidity		595% r.H. non condensing		
Life time expectation		64'000h (7.3 years) at 25°C ambient full load		
MTBF	- MILLIDDY 2475			
			5 Campient full load	
Overvoltage category	■ EN50178	1		
Pollution degree	■ IEC60664-1	2		
Isolation against enclosure			kVdc	
Safety Standards	■ UL508	(certified E356563)		
	■ EN60950 ■ EN50178	(reference)		
	EN30176	(reference)		
EMC Emission	■ EN55011 (CISPR11)	Class A		
	■ EN55022 (CISPR22)	Class A		
EMC Immunity	■ EN61000-4-2	Level 3		
	■ EN61000-4-3	Level 3		
	EN61000-4-4EN61000-4-5	Level 3 Level 1		
	■ EN61000-4-5 ■ EN61000-4-11	Level 2		
Protection degree		IP20		
Protection degree			NUTY 2x 2hours / ovis /V V 7\	
Vibration sinuosoidal	■ IEC 60068-2-6	(5-17.8Hz: ±1.6mm; 17.8-500		
Shock	■ IEC 60068-2-27	■ IEC 60068-2-27 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total)		
Connection terminals		2.5mm², screw type pluggable (2412AWG)		
Case material		Aluminum		
Weight		0.30kg		
Size (W x H x D)		54.0 x 115.0 x 110.0mm		
1) Start-up type tested: - 40°C possible at nomin	and united and describe			

¹⁾ Start-up type tested: - 40°C, possible at nominal voltage with load deration.

Notes:

⁻ Technical parameters are typical, measured in laboratory environment at 25°C at nominal values, after minimum 5 minutes of operation.

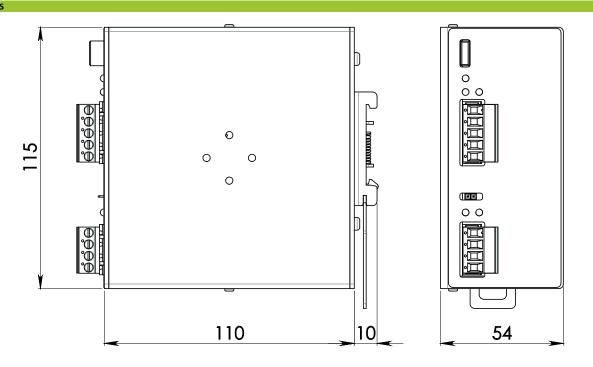
- Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.

- Data may change without prior notice in order to improve the product.

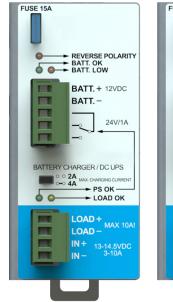


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DIMENSIONS



CONNECTION





Input / Output Connection:

- IN + = Positive DC (Power Supply)
- IN = Negative DC (Power Supply)
- LOAD + = Positive DC
- LOAD = Negative DC
- BATT.+ = Positive DC (Battery)
- BATT.- = Negative DC (Battery) Signaling: dry contact (SPDT)
- NO
- NC
- COM