











■ Main Features

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

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TECHNICAL DATA

TECHNICAL DATA Model type			NUPS24	
OUTPUT DATA	NUPS	12	NUPS24	
Load nominal voltage	1015Vdc		2028Vdc	
Charging current Limit (Settable)	1013		Į.	
Load maximal current	2.0A or 4.0A 10A			
Battery fuse	15A / 32V - Mini blade type, user replaceable			
Battery float voltage	[Vin - 0.4V] 11Vdc min. [Vin - 0.4V] 26Vdc min.			
Deep discharge cut-off voltage	9.2Vdc ± 0.5V		18Vdc ± 0.5V	
, , , ,	75% @ 13Vdc		75% @ 26Vdc	
Chargeable capacity of the battery	85% @ 13		85% @ 27Vdc	
vs power supply voltage	100% @ 14Vdc		100% @ 28Vdc	
"Batt. OK" LED	ON for U Batt. > 1		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/overload		
Status Signals	PS OK - green LED LOAD OK - amber LED BATT. OK - green LED BATT. LOW - red LED REVERSE POLARITY - red LED Dry contact (SPDT, 24Vdc / 1A)			
INPUT DATA				
Input DC rated voltage from power supply	1315.5Vdc		2628.5Vdc	
Input DC rated current	315A			
GENERAL DATA		5	15A	
Operating temperature ¹		40°C	. F0°C	
	- 40°C+ 50°C			
Derating	No derating			
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			
Overvoltage category Pollution degree	■ EN50178 I ■ IEC60664-1 2			
Isolation against enclosure	0.75kVdc			
Safety Standards	■ UL508 (certified E356563)			
	■ EN60950 (reference)			
	■ EN50178	(reference)		
EMC Emission	■ EN55011 (CISPR11)	Class A		
	■ EN55022 (CISPR22)	Class A		
EMC Immunity	■ EN61000-4-2	Level 3		
	■ EN61000-4-3	Level 3		
	■ EN61000-4-4	Level 3		
	■ EN61000-4-5	Level 1		
	■ EN61000-4-11	Level 2		
Protection degree	■ EN60529	IP20		
Vibration sinuosoidal	■ IEC 60068-2-6 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2hours / axis (X,Y,Z)			
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		
SIZE (** ATTA D)	al voltage with load deration.	54.0 X 115.0	0 A 110.0mm	

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.

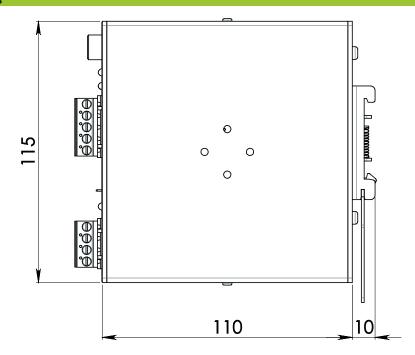
 Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.

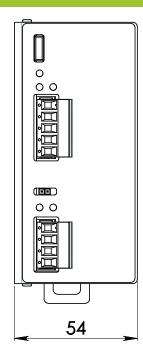
 Data may change without prior notice in order to improve the product.

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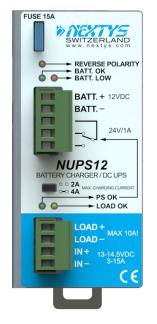


DIMENSIONS





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

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