

■ Main Features

- Accessory for the charging of a 12 or 24 Vdc battery
- Suitable for power supplies with adjustable output
- For Lead Acid batteries
- For LiFePO4 batteries compatible with Lead Acid batteries
- Allows to feed the load and to charge the battery at once
- Built-in battery protection fuse
- "Low battery" cut-off system



TECHNICAL DATA

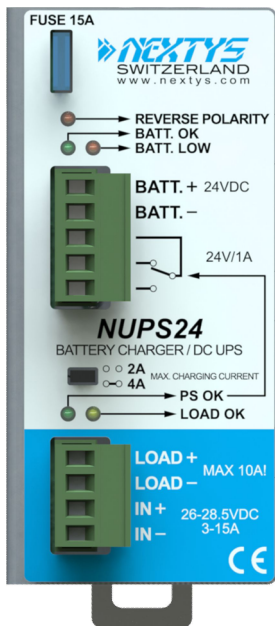
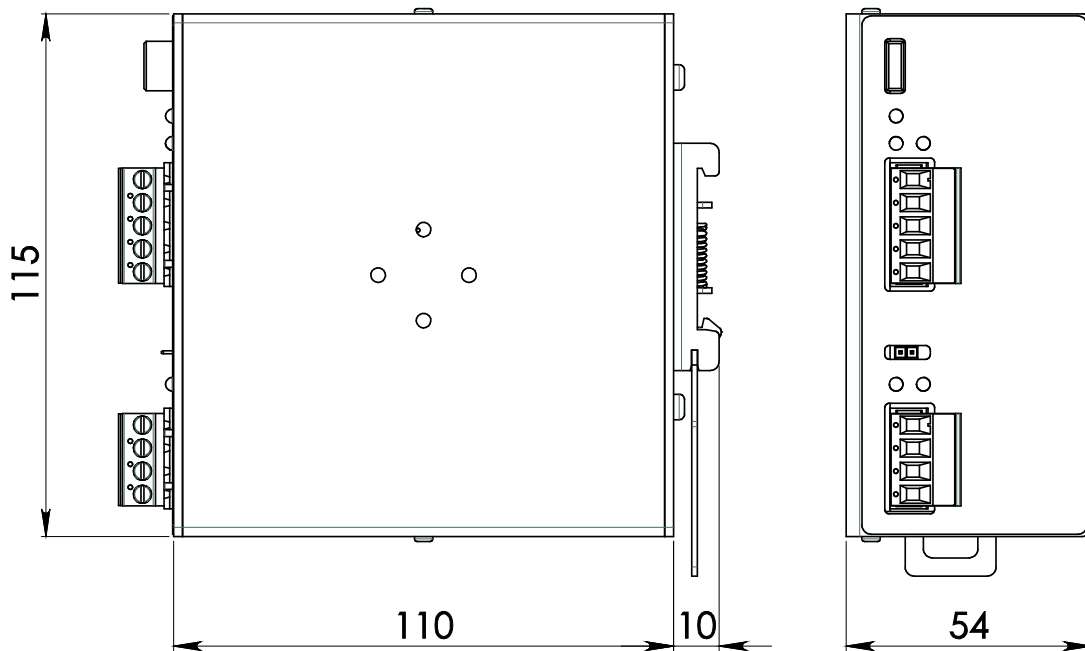
Model type	NUPS12	NUPS24
OUTPUT DATA		
Load nominal voltage	10...15Vdc	20...28Vdc
Charging current limit (settable)	2A or 4A	
Maximum load current	10A	
Battery float voltage	U _{in} - 0.4V, min. 11Vdc	U _{in} - 0.4V, min. 26Vdc
Deep discharge cut-off voltage	9.2Vdc ± 0.5V	
Chargeable capacity of the battery vs power supply voltage	<ul style="list-style-type: none"> ▪ 75% @ 13Vdc ▪ 85% @ 13.5Vdc ▪ 100% @ 14Vdc 	<ul style="list-style-type: none"> ▪ 75% @ 26Vdc ▪ 85% @ 27Vdc ▪ 100% @ 28Vdc
Status signals	<ul style="list-style-type: none"> ▪ PS OK: green LED and dry contact (1A/30V) ▪ LOAD OK: amber LED and dry contact (1A/30V) ▪ BATT. OK: green LED ▪ BATT. LOW: red LED ▪ REVERSE POLARITY: red LED 	
Batt. OK green LED	ON for U Batt. > 11.6Vdc ± 0.2Vdc	ON for U Batt. > 23.5Vdc ± 0.2Vdc
Batt. LOW red LED	ON for U Batt. < 11.6Vdc ± 0.2Vdc	ON for U Batt. < 23.5Vdc ± 0.2Vdc
Protections	<ul style="list-style-type: none"> ▪ Battery reverse connection ▪ Battery short-circuit/overload ▪ Battery deep discharge 	
Protection Fuse	Fuse 15A mini Blade (car type) 32V user replaceable	
INPUT DATA		
Voltage range from Power Supply	13...15.5Vdc	26...28.5Vdc
Input rated current	10A	
GENERAL DATA		
Operating temperature	- 40°C...+50°C / overtemperature protection Start-up type tested: - 40°C ¹	
Storage temperature	- 40°C...+ 80°C	
Humidity	5...95% r.H. non condensing	
Overvoltage category	III	
Pollution degree	2 (IEC 664-1)	
Isolation against enclosure	0.75kVdc	
Safety Standards	<ul style="list-style-type: none"> ▪ UL508 (reference) ▪ EN60950 (reference) 	
EMC Emission	<ul style="list-style-type: none"> ▪ EN55022:2010 (CISPR22) Class A ▪ EN55011:2009 /A1:2010 Class A 	
EMC Immunity	<ul style="list-style-type: none"> ▪ EN61000-4-2:2008 Level 3 ▪ EN61000-4-3:2006 /A2:2010 Level 3 ▪ EN61000-4-4:2012 Level 3 ▪ EN61000-4-5:2014 Level 1 ▪ EN61000-4-11:2004 /A1:2010 Level 2 	
Protection degree	<ul style="list-style-type: none"> ▪ EN60529:1989 /A:2013 IP20 	
Vibration sinusoidal	<ul style="list-style-type: none"> ▪ IEC 60068-2-6:2007 (5-17.8Hz: ±1.6mm; 17.8-500Hz: 2g 2Hours / axis (X,Y,Z) 	
Shock	<ul style="list-style-type: none"> ▪ IEC 60068-2-27:2008 (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total) 	
Connection terminals	2.5mm ² , screw type pluggable (24...12AWG)	
Case material	Aluminum	
Approx. weight	0.300kg	
Size (W x H x D)	55.0 x 110.0 x 113.0mm	
Mounting Rail	IEC 60715/H15/TH35-7.5(-15)	

1) Possible at nominal voltage with load deration.

Notes:

- For more details, performance and description regarding all parameters not indicated in the above table, please refer to user manual, downloadable from our website www.nextys.com.
- Technical parameters are typical, measured in laboratory environment at 25°C, input and 24Vdc.
- 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.

Dimensions



Input / Output Connection:

- IN (+/-) = connect to DC (+/-) Power supply
- LOAD (+/-) = connect to DC (+/-) Load
- BATTERY (+/-) = connect to DC (+/-) Battery
- PS OK = dry contact SPDT

(model just for reference)