## NUPS12/24







# Main Features

- ) Low cost DC-UPS with charging function of a 12 or 24Vdc battery
- ${\boldsymbol{J}}$  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
- ) Battery deep discharge protection
- ) To be used with lead acid and lithium batteries (compatible with lead acid batteries)
- *J* Instantaneous LOAD switch to BACKUP mode

## NUPS12/24



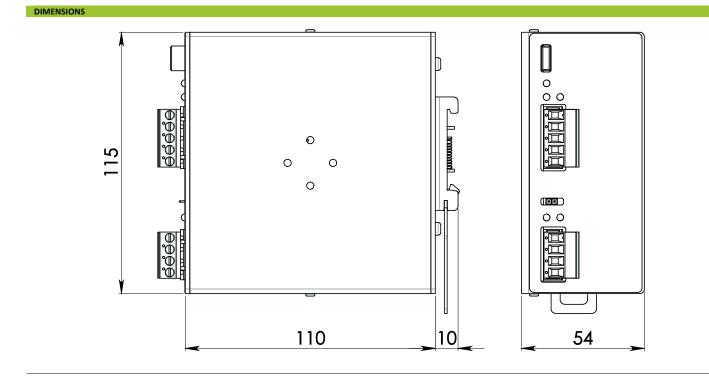
Model type	INICAL DATA el type NUPS12		NUPS24	
DUTPUT DATA				
oad rated voltage	120	/dc	24Vdc	
harging current Limit (Settable)	2.0A or 4.0A			
oad maximal current	10A			
attery fuse	15A / 32V - Mini blade type, user replaceable			
attery float voltage	[Vin - 0.4V] 11Vdc min.		[Vin - 0.4V] 26Vdc min.	
eep discharge cut-off voltage	9.2Vdc ± 0.5V		18Vdc ± 0.5V	
hargeable capacity of the battery	75% @ 13Vdc		75% @ 26Vdc	
s power supply voltage	85% @ 13.5Vdc 100% @ 14Vdc		85% @ 27Vdc 100% @ 28Vdc	
Batt. OK" LED	ON for U Batt. > 11.6Vdc ± 0.2V		ON for U Batt. > 23.5Vdc ± 0.2V	
Batt. LOW" LED			ON for U Batt. < 23.5Vdc ± 0.2V	
Batt. LOW LED	ON for U Batt. < 11.6Vdc ± 0.2V		ON 101 0 Batt. < 23.3Vdc ± 0.2V	
Protections Status Signals	<ul> <li>Battery reverse connection</li> <li>Battery short-circuit/overload</li> </ul>			
	<ul> <li>Battery deep discharge</li> </ul>			
	PS OK - green LED			
	<ul> <li>LOAD OK - amber LED</li> </ul>			
	BATT. OK - green LED			
	<ul> <li>BATT. LOW - red LED</li> </ul>			
	REVERSE POLARITY - red LED			
	<ul> <li>Dry contact (SPDT, 24V</li> </ul>	/dc / 1A)		
NPUT DATA		1		
nput DC rated voltage	1314.5Vdc	(UL certified)	2628.5Vdc (UL certified)	
om power supply	, , , , , , , , , , , , , , , , , , ,			
nput DC rated current		310	A	
SENERAL DATA				
Operating temperature <sup>1</sup>	- 40°C+ 70°C UL certified up to 60°C			
Derating	- 0.25A/°C over 60°C			
torage temperature	- 40°C+ 80°C			
lumidity	595% r.H. non condensing			
ife time expectation	64'000h (7.3 years) at 25°C ambient full load			
ИТВF	<ul> <li>MIL-HDBK-217F</li> </ul>	> 500'000h at 25°C	ambient full load	
Overvoltage category	<ul> <li>EN50178</li> </ul>	1		
Pollution degree	IEC60664-1	2		
solation against enclosure		0.75kV	dc	
Safety Standards	<ul> <li>UL508</li> </ul>	(certified E356563)		
	<ul> <li>EN60950</li> </ul>	(reference)		
	<ul> <li>EN50178</li> </ul>	(reference)		
5140.5	<ul> <li>EN55011 (CISPR11)</li> </ul>	Class A		
MC Emission	<ul> <li>EN55022 (CISPR22)</li> </ul>	Class A		
EMC Immunity	EN61000-4-2	Level 3		
	<ul> <li>EN61000-4-3</li> </ul>	Level 3		
	<ul> <li>EN61000-4-4</li> </ul>	Level 3		
	<ul> <li>EN61000-4-5</li> </ul>	Level 1		
	EN61000-4-11	Level 2		
rotection degree	<ul> <li>EN60529</li> </ul>	IP20		
ibration sinuosoidal	<ul> <li>IEC 60068-2-6</li> </ul>	(5-17.8Hz: ±1.6mm; 17.8-500Hz	: 2g 2hours / axis (X,Y,Z)	
hock	IEC 60068-2-27     (30g 6ms, 20g 11ms; 3 bumps / direction, 18 bumps total)			
onnection terminals	2.5mm <sup>2</sup> , screw type pluggable (2412AWG)			
ase material	Aluminum			
Veight				
	0.30kg			
Size (W x H x D)	54.0 x 115.0 x 110.0mm			

#### Notes:

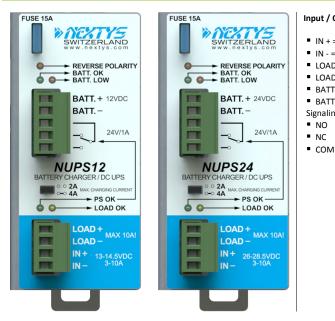
- Technical parameters are typical, measured in laboratory environment at 25°C at nominal values, after minimum 5 minutes of operation.
 - Power rating, losses, efficiency, ripple, thermal behaviour and start-up may change outside of the nominal rated input range. Contact factory for details.
 - Data may change without prior notice in order to improve the product.

### NUPS12/24





### 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)