

- 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-in 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



For reference only



### TECHNICAL DATA

	NUPS12	NUPS24
<b>OUTPUT DATA</b>		
Load rated voltage	12Vdc	24Vdc
Load voltage range	10...15Vdc	20...28Vdc
Charging current Limit (Settable)	2A or 4A	
Load maximal current	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
Chargeable capacity of the battery vs power supply voltage	75% @ 13Vdc	75% @ 26Vdc
	85% @ 13.5Vdc	85% @ 27Vdc
	100% @ 14Vdc	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. < 11.6Vdc ± 0.2V	ON for U Batt. < 23.5Vdc ± 0.2V
Protections	<ul style="list-style-type: none"> <li>• Battery reverse connection</li> <li>• Battery short-circuit/overload</li> <li>• Battery deep discharge</li> </ul>	
Status signals	<ul style="list-style-type: none"> <li>• PS OK - green LED</li> <li>• LOAD OK - yellow LED</li> <li>• BATT. OK - green LED</li> <li>• BATT. LOW - red LED</li> <li>• REVERSE POLARITY - red LED</li> <li>• Dry contact 24Vdc / 1A</li> </ul>	
<b>INPUT DATA</b>		
Input DC rated voltage from Power Supply	13...14.5Vdc (UL certified)	26...28.5Vdc (UL certified)
Input DC rated current	3...10A	
<b>GENERAL DATA</b>		
Operating temperature	- 40°C...+ 70°C (UL certified up to 60°C)	
Derating	- 0.25A/°C over 45°C	
Lifetime expectancy / MTBF	64'000h (7.3 years) at 25°C ambient full load / (MIL-HDBK-217F) 500'000h at 25°C ambient full load	
Overvoltage category	I	
Pollution degree	2 (IEC60664-1)	
Isolation against enclosure	0.75kVdc	
Standards & Approvals	UL508 (certified), EN60950 (reference), CE marking	
EMC Standards	EN61000-6-2, EN61000-6-4	
Protection degree	IP20 (EN60529)	
Connection terminals	2.5mm <sup>2</sup> , screw type pluggable (24...12AWG)	
Case material	Aluminum	
Weight	0.3kg	
Size (W x H x D)	54 x 115 x 110mm	