

- “All-in-one” economic solution for general purpose applications
- Input: 120-240Vac
- Output: 12 or 24Vdc - model dependent
- 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

	NCU120-12	NCU120-24
<b>OUTPUT DATA</b>		
Rated voltage	12Vdc	24Vdc
Adj. output voltage range	12.5...15.5Vdc (to be set at 14Vdc for correct battery charging)	23...27.5Vdc (to be set at 27Vdc for correct battery charging)
Continuous current	7A	5A
Overload limit	11.5A	6.5A
Load regulation	≤ 1%	
Ripple and noise	≤ 100mVpp	
Hold up time		
Vin = 120Vac	≥ 10ms	≥ 10ms
Vin = 240Vac	≥ 80ms	≥ 55ms
Protections	<ul style="list-style-type: none"> <li>• Overload/short circuit: hiccup</li> <li>• Thermal protection</li> <li>• Output overvoltage</li> </ul>	
Battery Protection	<ul style="list-style-type: none"> <li>• Against short-circuit with resettable fuse (9A)</li> <li>• Against reverse polarity connection</li> <li>• Against deep discharge (9V for NCU120-12 and 18V for NCU120-24 model)</li> </ul>	
Status signals	<ul style="list-style-type: none"> <li>• <b>LOAD ON PSU</b> - green LED</li> <li>• <b>LOAD ON BATTERY</b> - amber LED</li> <li>• Dry contact 24Vdc / 1A</li> </ul>	
<b>BATTERY INFO</b>		
Rated voltage	12...14.4Vdc	24...28.8Vdc
Charging current	0.8A max.	
<b>INPUT DATA</b>		
Input AC rated voltage	Nominal: 120...240Vac (range 100...264Vac)	
Frequency	47...63Hz	
Input DC rated voltage	140...345Vdc	
Input AC rated current		
Vin = 120Vac	2A	
Vin = 240Vac	1.1A	
Input DC rated current		
Vin = 140Vdc	1A	
Vin = 345Vdc	0.5A	
Inrush peak current / I <sup>2</sup> t	≤ 24A / 0.5A <sup>2</sup> s	
Touch (leakage) current	≤ 0.6mA	
Internal protection fuse	Fuse 3.15AT (not user replaceable)	
Recommended external protection	Fuse 4AT or MCB 4A C curve / SPD	
<b>GENERAL DATA</b>		
Efficiency	> 83.5%	> 86%
Dissipated power	< 21W	< 20W
Operating temperature	- 40°C...+ 70°C	
Derating	- 0.75W/°C over 50°C	- 1.2W/°C over 50°C
Lifetime expectancy / MTBF	167'953h (19.1 years) at 25°C ambient full load / (MIL-HDBK-217F) 600'000h at 25°C ambient full load	
Overvoltage category	III	
Pollution degree	2 (IEC60664-1)	
Input / output isolation	4.2kVdc	
Input / ground isolation	2.2kVdc	