





Main Features

-) "All-in-one" economic solution for general purpose
-) Input: 120...240Vac
- / Output: 12 or 24Vdc model dependent
- J To be used with lead acid and lithium batteries (compatible with lead acid batteries)
- J Instantaneous LOAD switch BACKUP mode

NCU120 Series



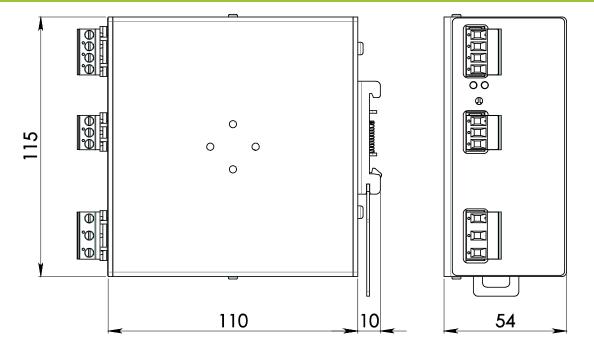
TECHNICAL DATA Model type	NCU120-12		NCU120-24	
OUTPUT DATA	NC0120-12		NCU120-24	
Rated voltage	12Vdc		24Vdc	
Adj. output voltage range	12.515.5Vdc	attany abaraina)	2327.5Vdc (to be set at 27)/ds for somet battery sharping)	
Continuous current	(to be set at 14Vdc for correct ba 7.0A		(to be set at 27Vdc for correct battery charging) 5.0A	
Overload limit	11.5A		6.5A	
Short circuit peak current	> 20A for 40ms		> 16A for 80ms	
oad regulation	< <u>1%</u>			
Ripple & Noise ¹		≤ 100mVpp		
Hold up time				
Vin = 120Vac Vin = 240Vac	≥ 10ms		≥ 10ms	
VIII = 240Vac	≥ 80ms		≥ 55ms	
Protections	 Overload/short circuit: Hiccup mode Thermal protection Output overvoltage 			
Output overvoltage protection (active)	≥ 18Vdc		≥ 33Vdc	
Battery protections	 Against short-circuit with resettable fuse (9A) Against reverse polarity connection Against deep discharge 			
Deep discharge cut-off voltage	9Vdc ± 0.5V		18Vdc ± 0.5V	
Status Signals	LOAD ON PSU - green LED LOAD ON BATTERY - amber LEI Dry contact (SPDT, 24Vdc / 1A)			
Parallel connection		Not recommend	ed	
BATTERY INFO				
Rated voltage	1214.4Vdc		2428.8Vdc	
Charging current		0.8A max.		
NPUT DATA		0.0/1110X.		
		Nominal: 12024)Vac	
nput AC rated voltage requency	Range: 100240Vac 4763Hz			
nput DC rated voltage	140345Vdc			
nput AC rated current				
/in = 120Vac		2.0A		
/in = 240Vac		1.1A		
nput DC rated current				
/in = 140Vdc		1.0A		
√in = 345Vdc	0.5A			
nrush peak current	≤ 40A			
Fouch (leakage) current	≤0.6mA			
	Fuse 3.15AT (not user replaceable)			
nternal protection fuse		Fuse 4AT or MCB 4A C curve / Cartridge fuse Class CC 4AT 250Vac It is strongly recommended to provide external surge arresters (SPD) according to local regulations.		
Internal protection fuse Recommended external protection ³				
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Recommended external protection ³ GENERAL DATA Efficiency			esters (SPD) according to local regulations. > 86%	
Recommended external protection ³	It is strongly recommend	ded to provide external surge and	esters (SPD) according to local regulations. > 86% < 20W	
Recommended external protection ³ GENERAL DATA Efficiency	It is strongly recommend > 83.5%	ded to provide external surge arr	esters (SPD) according to local regulations.	
Recommended external protection ³ ENERAL DATA Efficiency Dissipated power Dperating temperature ²	It is strongly recommend > 83.5% < 21W	ded to provide external surge arr - 40°C+ 70°C UL certified up to	esters (SPD) according to local regulations. > 86% < 20W 50°C	
Recommended external protection ³ ENERAL DATA Efficiency Dissipated power Derating temperature ² Derating	It is strongly recommend > 83.5%	ded to provide external surge arr - 40°C+ 70°C	esters (SPD) according to local regulations. > 86% < 20W 50°C - 1.2W/°C over 50°C	
Recommended external protection ³ ENERAL DATA Efficiency Dissipated power Operating temperature ² Derating Etorage temperature	It is strongly recommend > 83.5% < 21W	ded to provide external surge ar - 40°C+ 70°C UL certified up to - 40°C+ 80°C	esters (SPD) according to local regulations. > 86% < 20W 50°C - 1.2W/°C over 50°C :	
Recommended external protection ³ GENERAL DATA Efficiency Dissipated power Diperating temperature ² Derating Storage temperature Humidity	It is strongly recommend > 83.5% < 21W	ded to provide external surge ar - 40°C+ 70°(UL certified up to)°C - 40°C+ 80°(595% r.H. non con	esters (SPD) according to local regulations.	
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Recommended external protection ³ SENERAL DATA Efficiency Dissipated power Derating temperature ² Derating Etorage temperature Humidity Ife time expectation MTBF	It is strongly recommend > 83.5% < 21W	ded to provide external surge ar - 40°C+ 70°(UL certified up to)°C - 40°C+ 80°(595% r.H. non con	esters (SPD) according to local regulations.	
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Recommended external protection ³ GENERAL DATA Efficiency Dissipated power Derating temperature ² Derating Corage temperature Humidity If e time expectation VTBF Dervoltage category Pollution degree Protection Class nput / output isolation	It is strongly recommend > 83.5% < 21W	ded to provide external surge ar - 40°C+ 70° UL certified up to 0°C - 40°C+ 80°C 595% r.H. non con 167'953h (19.1 years) at 25°C > 600'000h at 25°C amb 4.2kVdc	esters (SPD) according to local regulations.	
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NCU120 Series



Case material	Aluminum	
Weight	0.50kg	
Size (W x H x D)	54.0 x 115.0 x 110.0mm	
 Ripple and Noise are measured with 20MHz bandwidth, probe terminated with a 0.1µF MKP parallel capacitor. Start-up type tested: - 40°C, possible at nominal voltage with load deration. In order to be UL compliant use Listed Cartridge nonrenewable (JDDZ) fuse Class CC 4AT 250Vac 		
Notes: Technical parameters are typical, measured in laboratory environment at 25°C and 240Vac / 50Hz, 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.		

DIMENSIONS



CONNECTION

