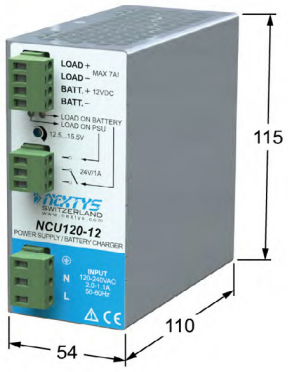
24V DIN Rail Battery Charger and DC-UPS

ASINCU120-24

Your Source for Automation Components

- "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
OUTPUT DATA		
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 Vin = 240Vac	 ≥ 10ms ≥ 80ms	 ≥ 10ms ≥ 55ms
Protections	• Overload/short circuit: hiccup • Thermal protection • Output overvoltage	
Battery Protection	• Against short-circuit with resettable fuse (9A) • Against reverse polarity connection • Against deep discharge (9V for NCU120-12 and 18V for NCU120-24 model)	
Status signals	• **LOAD ON PSU** - green LED • **LOAD ON BATTERY** - amber LED • Dry contact 24Vdc / 1A	
BATTERY INFO		
Rated voltage	12…14.4Vdc	24…28.8Vdc
Charging current	0.8A max.	
INPUT DATA		
Input AC rated voltage Frequency	Nominal: 120…240Vac (range 100…264Vac) 47…63Hz	
Input DC rated voltage	140…345Vdc	
Input AC rated current Vin = 120Vac Vin = 240Vac	 2A 1.1A	
Input DC rated current Vin = 140Vdc Vin = 345Vdc	 1A 0.5A	
Inrush peak current / I^2t	≤ 24A / 0.5A^2s	
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	
GENERAL DATA		
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	

Compact Sealed Battery Module
ASINBP30-2B

Your Source for Automation Components

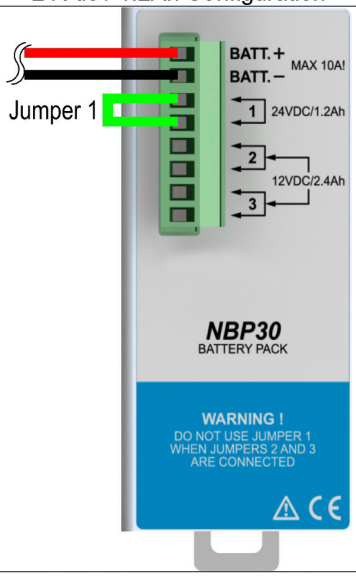
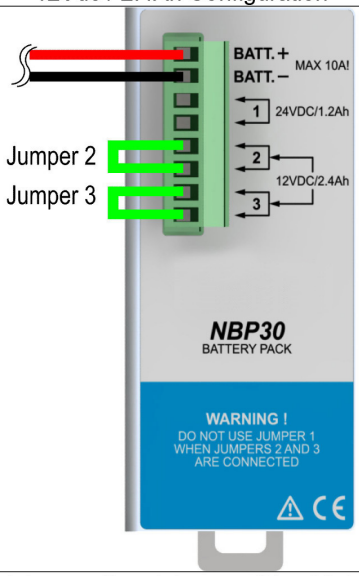
■ *Main Features:*

- User Settable Output Voltage 12 – 24Vdc / 2.4 – 1.2Ah
- Sealed Lead Acid Battery
- Integrated Self Resettable Overcurrent Protection

TECHNICAL DATA

Model type	NBP30-2B
BATTERY PACK INFO	
Voltage capacity	2 x Lead acid sealed batteries 12Vdc / 1.2Ah
Batteries	YUASA NP1.2-12
Internal protection fuse	30V/9A self resettable
Max Charging Current	12Vdc Configuration : **0.6A** 24Vdc Configuration : **0.3A**
Max Discharge Current	12Vdc Configuration : **5.0A** 24Vdc Configuration : **3.0A**
CONFIGURATION	
Voltage / Capacity Obtainable by external jumper	12Vdc / 2.4Ah 24Vdc / 1.2Ah
GENERAL DATA	
Operating temperature	- 20°C…+50°C
Protection degree	EN60529:1989 /A:2013 IP20
Battery Connectors	2.5mm², Pluggable screw type (24…12 AWG) 2 pins pluggable, 5.08mm pitch
Selection Mode Connectors	2.5mm², Pluggable screw type (24…12 AWG) 6 pins pluggable, 5.08mm pitch
Case material	Aluminum
Approx. weight	2.36Kg(5.2 lbs.)
Size (HxWxD)	110 x 54 x 115 mm (4.528 x 2.126 x 4.331")
Mounting Rail	IEC 60715/H15/TH35-7.5(-15)

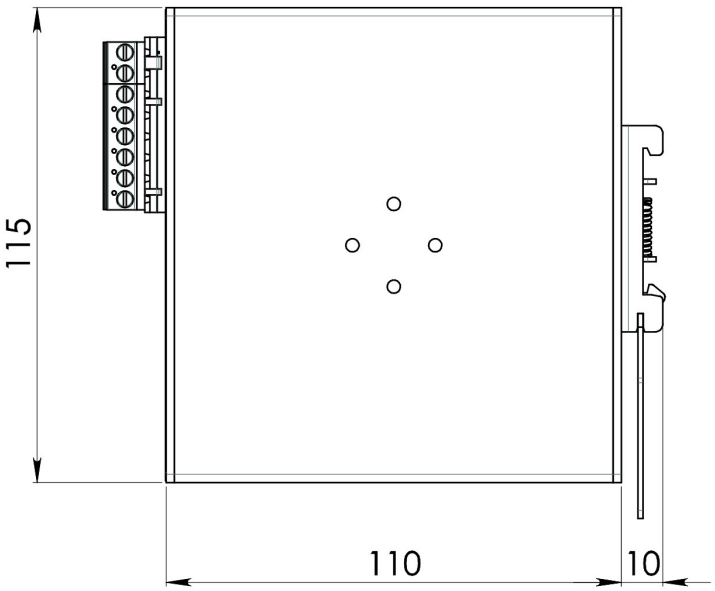
Notes:
- For more details, performance and description regarding all parameters not indicated in the above table, please refer to user manual, downloadable from our website www.nextys.com.
- Technical parameters are typical, measured in laboratory environment at 25°C.
- Data may change without prior notice in order to improve the product.

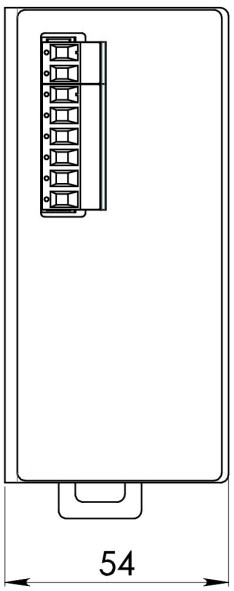
24Vdc / 1.2Ah Configuration	12Vdc / 2.4Ah Configuration
	
Connect only Jumper 1 to obtain 24Vdc	Connect Jumper 2 and Jumper 3 to obtain 12Vdc

Compact Sealed Battery Module
ASINBP30-2B

Your Source for Automation Components

Dimensions





Input / Output Connection:

- BATT. (+/-) = IN/OUT connector to (+/-) Battery
- 1 = Jumper connector to obtain 24Vdc/1.2Ah
- 2 + 3 = Jumper connectors to obtain 12Vdc/2.4Ah