

Battery backup NEO FLX L Series



The **NEO Series** is normally used in security facilities where the requirements are higher concerning; more features and alarm functions, longer spare times or when the power supply need to handle higher loads.

INTELLIGENT CHARGING

The **NEO series** offers **INTELLIGENT CHARGING** which means that when the batteries are fully charged they will be disconnected electronically for standby mode for up to 20 days. By charging the batteries every 20 days (instead of not being used), the system extends the battery life by up to 50%. The batteries automatically reconnects in less than 50 microseconds when needed. The NEO Series can be used both with AGM batteries and Lithium LiFePO4 batteries.

FLEXIBLE & EXPENDABLE

The **NEO Series FLX L Series** can be supplemented with up to 4 battery boxes if needed. The battery boxes are connected through a pluggable connector. The battery box have space for up to 2x 45Ah batteries per each battery box.

MORE THAN JUST A POWERSUPPLY

If the NEO series is connected to RS485 (needs communication with superior system) it is able to send information about;

- System voltage (max, average, minimum)
- System temperature (max, average, minimum)

The system also presents all alarm functions through RS485 communication.

The above features are also possible to read through a PC software which is available to download free of charge. In addition to the PC software, you also need a USB-TTL adapter.

Expected backup operating time at below conditions (new batteries):

@ Currency

System Voltage	Batteries		2A	4A	8A	10A	14A	18A
24V	2x 28Ah		12h	5h	2h	1,5h	50min	30min
24V	2x 45Ah		21h	12h	4h	3h	2h	1,5h
24V	4x 28Ah (56Ah)	(with 1x FLX M battery box)	25h	12h	5h	4h	2,5h	1,5h
24V	4x 45Ah (90Ah)	(with 1x FLX M battery box)	42h	20h	12h	8h	5h	3,5h
24V	6x 28Ah (84Ah)	(with 2x FLX M battery box)	38h	18h	9h	7h	4,5h	3h
24V	6x 45Ah (135Ah)	(with 2x FLX M battery box)	64h	30h	15h	12h	9h	6h
24V	8x 28Ah (112Ah)	(with 3x FLX M battery box)	50h	25h	12h	10h	6,5h	4,5h
24V	8x 45Ah (180Ah)	(with 3x FLX M battery box)	82h	42h	20h	16h	12h	10h
24V	10x 28Ah (140Ah)	(with 4x FLX M battery box)	65h	32h	16h	12h	9,5h	6,5h
24V	10x 45Ah (225Ah)	(with 4x FLX M battery box)	108h	54h	26h	20h	15h	13h

Technical data

NEO 24V 5A FLX L

NEO 24V 10A FLX L

NEO 24V 15A FLX L

NEO 24V 25A FLX L

Recommended environment and the product's enclosure:

Recommended environment:	Environment Class 1, Inhouse, 20% ~ 90% relative humidity			
Ambient temperature:	+5 °C - 40 °C (For optimal battery life +15 °C - +25 °C)			
Protection class:	IP32			
Recommended mounting:	Wall or Rack (angles included)			
Dimension (HxWxD):	444x437x212mm (10U)			
Net weight:	12kg	13kg	14kg	15kg
Number of cable penetrations:	4 pcs baffle inlets/knockouts			
The color of the enclosure:	Black			
Built in fan for cooling:	Yes			

Electrical information:

Input voltage:	110V-264VAC/47-63Hz			
Output voltage:	27,3VDC			
Max current:	5A	10A	15A	25A
Charge current:	1A	1A	3A	3A
Rated power:	156W	240W	336W	648W
Overload:	105-150% rated output		105-135% rated output power	
Ripple at normal operation:	200mVp-p	200mVp-p	150mVp-p	150mVp-p
Efficiency:	89%	89%	87%	88%
Heat generation at 50% / 80% of rated power:	8,4W / 13,5W	17W / 27W	31W / 49W	50W / 80W
Input current:	1,7A	2A	1,8A	3,6A
Number of fused outputs:	2 pcs			
Type of fuse output:	2xF5A (glass)	2xF10A (glass)	2xC16A	2xC25A
Deep-discharge protection occurs at:	21V			
Possible to connect in parallel:	YES			
Protection against:	Overload, Overvoltage, Overtemperature, Short circuit and Deep discharge			
Alarm functions (3 outputs):	Delayed power failure (10 sec) (output 1), low battery voltage in battery mode (24V), over/undervoltage, disconnected batteries (10 sec), load fuse failure (output 2), tamper alarm (output 3).			
Alarm through:	Alternating relay or RS485 (need to have communication with parent system for RS485 communication)			

Article information:

Article name:	NEO 24V 5A FLX L	NEO 24V 10A FLX L	NEO 24V 15A FLX L	NEO 24V 25A FLX L
Article number:	FL01N10124P050	FL01N10124P100	FL01P10024P150	FL01P10024P250
E-number:	5213541	5213542	5213543	5213544
The product meets:	EMC Directive 2014/30EU, Low Voltage directive: 2014/35/EU CE directive according to 765/2008, Emission: EN61000-6-2:2001, EN55022:1998-A1:2000, A2:2003 Class B, EN61000-3-2:2001. Immunity: EN61000-6-2:2005, EN61000-4-2, -3, 4, -5, -6, -11.			
Warranty period:	2 years			
Designed and produced by:	Milleteknik AB			
Country of origin:	Sweden			

Information and choice of battery / batteries:

Designated battery type:	12V Maintenance-free batteries, type AGM or Lithium LiFePO4			
Possible battery types:	2x 28Ah or 2x 45Ah			
Recommended batteries:	UPLUS 10+ Design Life 28Ah or UPLUS 10+ Design Life 45Ah			
Article number 28Ah batteries:	MT113-12V28-01			
Article number 45Ah batteries:	MT113-12V45-01			

Version: NEO3 & Pro1