## Battery backup NOVA FLX L Series



The **NOVA series** is mainly used in security systems where an SSF 1014\* approved battery backup is required or where the requirements are higher concerning; more features and alarm functions.

#### INTELLIGENT CHARGING

The **NOVA 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.

### **BATTERY CHANGE INDICATION**

The system is also equipped with internal power resistors for qualified battery capacity test, which announces when the batteries need to be replaced before the batteries are aged.

#### FLEXIBLE & EXPENDABLE

The **NOVA FLX L series** shall be mounted on the wall or in 19" rack (reversible angles included). The system can be supplemented with a battery box if needed. The battery box slides in to the bottom of the battery backup and connects through a pluggable connector. The battery box have space for 2x 45Ah batteries per each battery box.

\*Note that the battery backup must be co-certified with the parent system for the product to be approved in SSF 1014, alarm class 1-4.

#### MORE THAN JUST A POWERSUPPLY

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

- -System load (max, average, minimum)
- -System voltage (max, average, minimum)
- -System temperature (max, average, minimum)
- -Possible operating time in case of power failure

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

@ Currency

System Voltage	Batteries		2A	4A	8A	10A	14A	18A
24V	2x 45Ah		21h	12h	4h	3h	2h	1,5h
24V	4x 45Ah	(with 1x battery box)	42h	20h	12h	8h	5h	3,5h
24V	6x 45Ah	(with 2x battery box)	64h	30h	15h	12h	9h	6h
24V	8x 45Ah	(with 3x battery box)	82h	42h	20h	16h	12h	10h
24V	10x 45Ah	(with 4x battery box)	108h	55h	27h	22h	15h	13h



recillical data	NOVA 24V 5A FLX L	NOVA 24V 10A FLX L	NOVA 24V 15A FLX L	NOVA 24V 25A FLX L	
Recommended environment and the product's enclosure	9:				
Recommended environment:	Environment Class 1, Inhouse, 20% ~ 90% relative humidity				
Ambient temperature:	+5 °C - 40 °C (For optimal batterylife +15 °C - +25 °C)				
Protection Class:	IP32				
Recommended mounting:		Wall or Rack (revers	sible angles included)		
Dimension (HxWxD):	444x436x210mm				
Net Weight:	12kg	13kg	14kg	15kg	
Number of cable penetrations:		4р	ocs		
The color of the enclosure:	Black				
Built in fan for cooling:		Υ	es		
Electrical information:					
Input voltage:		110V-264V	AC/47-63Hz		
Output voltage:	27,3VDC				
Load Current Imax a:	4,5A	10A	14A	25A	
Load Current Imax b:	5A	10A	15A	27A	
Rated power:	120W	240W	336W	648W	
Overload:	105-150% rated output power		105-135% rated output power		
Ripple at normal operation:	200mVp-p	200mVp-p	150mVp-p	150mVp-p	
Efficiency:	84%	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:	2pcs				

Possible to connect in parallel: YES Protection against: Overload, Overvoltage, Overtemperature, Short circuit and Deep discharge

2xF5A (glass)

Power failure (output 1), low battery voltage (output 2), over/undervoltage, aged batteries, disconnected batteries, battery short circiut failure, battery capacity to low, charging error, low system voltage, load fuse failure (output 3), tamper alarm (output 4). Alarm functions (4 outputs):

21V

2xC16A

2xF10A (glass)

Alarm through: Alternating relay or RS485. (need to have communication with parent system for RS485 communication)

Article information:						
Article name:	NOVA 24V 5A FLX L	NOVA 24V 10A FLX L	NOVA 24V 15A FLX L	NOVA 24V 25A FLX L		
Article number:	FL01P20024P050-SSF	FL01P20024P100-SSF	FL01P20024P150-SSF	FL01P20024P250-SSF		
E-number:	5213569	5213570	5213571	5213572		
Certification name:	NOVA 27 50-FLX L_PRO3V1	NOVA 27 100-FLX L_PRO3V1	NOVA 27 150-FLX L_PRO2V1	NOVA 27 250-FLX L_PRO2V1		
The product meets and are certified according to:	EMC Directive 2014/30EU, Low Voltage directive: 2014/35/EU CE directive according to 765/2008, Emission: EN61000-6-: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. SSF1014, Alarm Class 1-4, (Burglar Alarms and Integrated Security Systems).					

Certification No: Pending

5 years. / 1. Ambient temperature shall not exceed 32° Celsius. 2. Medium current shall not exceed 80% of rated current. 3. The system must be used with UPLUS 10+ Design Life batteries. 4. The fan shall be cleaned annually and changed if needed. Warranty period / Rules for warranty:

Producer:

Country of origin: Sweden

Information and choice of battery / batteries:

Type of fuse output:

Deep-discharge protection occurs at:

12V Maintenance-free batteries, type AGM Designated battery type:

Possible battery types: 2x 45Ah

System tested and certified with: UPLUS 10+ Design Life 45Ah batteries (up to 10x 45Ah batteries; 225Ah)

Article number 45Ah batteries: MT113-12V45-01

Approved average load according to SSF1014 Alar	m Class 1-4:			
Article name:	NOVA 24V 5A FLX L	NOVA 24V 10A FLX L	NOVA 24V 15A FLX L	NOVA 24V 25A FLX L
excl. batterybox (2x 45Ah batteries):				
Alarm Class 1-2:	3,7A	3,7A	3,6A	3,6A
Alarm Class 3-4:	1,5A	1,5A	1,4A	1,4A
incl. 1x batterybox (4x 45Ah batteries):				
Alarm Class 1-2:	-	7,4A	7,3A	7,3A
Alarm Class 3-4:	-	3A	2,9A	2,9A
incl. 2x batterybox (6x 45Ah batteries):				
Alarm Class 1-2:	-	-	11,1A	11,1A
Alarm Class 3-4:	-	-	4,4A	44A
incl. 3x batterybox (8x 45Ah batteries):				
Alarm Class 1-2:	-	-	14,8A	14,8A
Alarm Class 3-4:	-	-	5,9A	5,9A
incl. 4x batterybox (10x 45Ah batteries):				
Alarm Class 1-2:	-	-		18,7A
Alarm Class 3-4:	-	-	-	7,5A
				Version: TEQ-COM Pro2_Pro3



2xC25A