Battery backup NOVA FLX S 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 S 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 shall be places underneath the battery backup and connects through a cable thats comes with the battery box. The battery box have space for 4x 14Ah batteries per each battery box.

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 (new batteries):

@ Currency

System Voltage		Batteries		0,5A	1A	2A	4A	6A	8A
24V	2x	7,2Ah		12h	5h	2h	1h	30min	15min
24V	2x	14Ah		24h	12h	5h	2h	1h	45min
24V	6x	14Ah (42Ah)	(with 1x battery box)	72h	38h	20h	9h	5h	3,5h
24V	10x	14Ah (70Ah)	(with 2x battery box)	120h	65h	32h	16h	11h	7h



	NOVA 24V SA FLA S	NOVA 24V TOA FLA 3			
Recommended environment and the product's enclo	sure:				
Recommended environment:	Enviroment 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 (reversible angles included)				
Dimension (HxWxD):	222x437x145mm (5U)				
Net weight:	6,5kg	7kg			
Number of cable penetrations:	9 pcs baffle in	lets/knockouts			
The color of the enclosure:	Black				
Built in fan for cooling:	Yes	Yes			
Electrical information:					
Input voltage:	110V-264VAC/47-63Hz				
Output voltage:	27,3VDC				
Load current Imax a:	4,5A	10A			
Load current Imax b:	5A	10A			
Rated power:	120W	240W			
Overload:	120W 240W 105-150% rated output power				
Ripple at normal operation:	200mVp-p	200mVp-p			
Efficiency:	84%	89%			
Heat generation at 50% / 80% of rated power:		17W / 27W			
	8,4W / 13,5W				
Input current:	1,7A	2A			
Number of fused outputs:	2p				
Type of fuse output:	2x F5A (glass)	2x F10A (glass)			
Deep-discharge protection occurs at:	21				
Possible to connect in parallel:	YES				
Protection against:	Overload, Overvoltage, Overtemperature, Short circuit and Deep discharge				
Alarm functions (4 outputs):	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 through:	Alternating relay or RS485. (need to have communic	eation with parent system for RS485 communication)			
Article information:					
Article name:	NOVA 24V 5A FLX S	NOVA 24V 10A FLX S			
Article number:	FS01P30024P050-SSF	FS01P30024P100-SSF			
E-number:	5213562	5213563			
Certification name:	NOVA 27 50-XS2_PRO3	NOVA 27 100-XS2_PRO3			
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 1-3, (Burglar Alarms and Integrated Security Systems).				
Certification No:	Pen	ding			
Warranty period / Rules for warranty:	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.				
Designed and produced by:	Milletel	knik AB			
Country of origin:	Swe	den			
Information and choice of battery / batteries:					
Designated battery type:	12V Maintenance-free batteries, type AGM				
Possible battery types:	2x 7,2Ah / 2x 14Ah				
System tested and certified with:	UPLUS 10+ Design Life 7,2Ah and 14Ah batteries				
Article number 7,2Ah batteries:	MT113-12V07-01				
Article number 14Ah batteries:	MT113-1	2V14-01			
Approved average load according to SSF1014 Alarm Article name:	n Class 1-3: NOVA 24V 5A FLX S	NOVA 24V 10A FLX S			
excl. battery box (2x 14Ah batteries):					
Alarm Class 1-2:	1,1A	1,1A			
Alarm Class 3:	0,45A	0,45A			
incl. 1x batterybox (6x 14Ah batteries):					
Alarm Class 1-2:	3,4A	3,4A			
Alarm Class 3:	1,4A	1,4A			

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Version: TEQ-COM Pro3

Alarm Class 3:

2,3A