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READ THIS CAREFULLY BEFORE INSTALLATION!	LEGGERE ATTENTAMENTE PRIMA DELL'INSTALLAZIONE!	A LIRE ATTENTIVEMENT AVANT L'INSTALLATION!
Before operating, read this document thoroughly and retain	Prima dell'installazione, leggere attentamente questo	Lisez ces instructions avant l'installation, conservez ce
it for future reference.	documento istruzioni e conservarle per future consultazioni.	manuel pour référence future.
Non-respect of these instructions may reduce	L'inosservanza delle presenti istruzioni può compromettere le	Défaut de se conformer à ces instructions peut affecter les
performances and safety of the devices and cause danger		caractéristiques et la sécurité du dispositif de danger et de
for people and property.		causer aux personnes ou aux biens.
The products must be installed, operated, serviced and	Il prodotto deve essere installato, utilizzato e riparato da	Les produits doivent être installés, exploité et entretenus par
maintained by qualified personnel in compliance with		personnel qualifié et en conformité avec les règlements.
applicable standards and regulations.		N'ouvrez pas le produit, il ne contient aucune pièce réparable,
		le déclenchement du fusible interne (le cas échéant) est
components, the tripping of the internal fuse (if included) is	guasto interno. Non tentare di riparare o modificare il prodotto,	causé par un défaut interne. Ne pas essayer de réparer ou
caused by an internal failure.		modifier le produit ; si des défaillances se produisent pendant
Don't repair or modify the device, if malfunction or failure		le fonctionnement ou les dysfonctionnements, le retourner au
should occur during operation, send unit to the factory for		fabricant pour inspection. Nextys SA n'assume aucune
inspection. No responsibility is assumed by Nextys SA for	qualunque conseguenza derivante dall'uso di questo materiale.	responsabilité des conséquences éventuelles découlant de
any consequences deriving from the use of this material.		l'utilisation des produits.
CAUTION	ATTENZIONE	AVVERTISSEMENT
RISK OF BURNS, EXPLOSION, FIRE, ELECTRICAL		RISQUE DE BRULURES, EXPLOSION, INCENDIE,
SHOCK, PERSONAL INJURY.		ELECTROCUTION, DOMMAGE AUX PERSONNES.
Never carry out work on live parts! Danger of fatal injury!	Non effettuare mai operazioni sulle parti sotto tensione! Pericolo	
The product's enclosure may be hot, allow time for cooling		tension! Danger de mort! Le récipient peut produire des
product before touching it. Do not allow liquids or foreign		brulures, le laisser refroidir avant de toucher l'appareil. Ne
objects to enter into the products.		faites pas pénétrer des liquides ou des corps étrangers dans
To avoid sparks, do not connect or disconnect the device		l'appareil. Pour éviter des étincelles, ne pas connecter ou
		déconnecter l'équipement jusqu'à ce que vous avez supprimé
internal capacitors discharge (minimum 1 minute).	prima che sia avvenuta la scarica dei condensatori interni (min. 1 minuto).	la tension d'entrée et avant qu'elle n'ait lieu de décharge des condensateurs internes (minimum 1 minute).

	DE	CLARATION OF CONFORMITY	
SWITZERLAN www.nextys.co		rtino - Switzerland / 840 14 48; Fax: +41-(0)91 840 14 47	
	pility that the device included in this be	5014 "General criteria for supplier's declaration of conformity". ox, has passed all processing inspections and the final test and it is in conformity with the pro	duct
REACH compliance: the product re	spects the EC requirements related to	ROHS substances, according to "Restriction of Hazardous Substances" as per document 20 o REACH SVHC directive (2015) . has not run any test to evaluate if the specific elements are present.	11/65/UE
		dards, if not expressly indicated through the official documents or files, they have been tested the reference standards applied to each model.	I through
Code Description NPSM480-24 Single phase Certifications and approvals		er supply IN 200 - 240Vac (250 - 375Vdc) / OUT 24Vdc - 20A	
Reference standards	2014/35/EU (2014) 2014/30/EU (2014) EN60950-1:2006 /A2:2013 UL508 EN61000-6-2:2005 - EN61000-4-2:2008 - EN61000-4-2:2008 - EN61000-4-3:2006 /A2:2010 - EN61000-4-5:2014 - EN61000-4-11:2004 /A1:2010 EN61000-6-3:2007 /A1:2011 - EN55022:2010 - EN55011:2009 /A1:2010 - EN61000-3-2:2014	IND.CONT.EO. 4WX9 2011/65/EU (Low Voltage Directive) (EMC directive) (EMC directive) (Safety Standards) (Certified - IND. CONT. EQ. 4WX9 file no. E356563) (Generic immunity standard for industrial environments) (Electrostatic discharge immunity test) (Radiated, radio-frequency, electromagnetic field immunity test) (Electrical fast transient/burst immunity test) (Surge immunity test) (Voltage dips, short interruptions and voltage immunity test) (Generic emission standard for residential environments) (CISPR22 - EMC) (CISPR11 - EMC) (Limits for harmonics current emissions) (Election and content of the emissions)	

Date: 25.02.2016

Place: Quartino, Switzerland

The product manager

M Cinica Marius Ciorica



USER INSTRUCTIONS 1) Description: DIN rail mountable primary switched-mode power supply with 187...265Vac (250...375Vdc) input, suitable for Single Phase main line and DC line. 2) Installation: use DIN-rails according to EN60715. Installation should be made vertically (see Fig.4). For better device stability fix the rail to the wall close to the point where the device is to be mounted. In order to guarantee sufficient convection, we recommend observing a minimum distance to other modules (see Fig.3). The device is provided with a thermal protection; a limited air flow can cause the thermal protection tripping. The SMPS automatically restarts after cooling. To get normal operation reduce the temperature of the air surrounding the power supply, increase the ventilation or reduce the load (see Fig.8) 3) Connections: the device is equipped with pluggable screw terminals. To avoid sparks, do not connect or disconnect the connectors before having previously turned-off input power and waited for internal capacitors discharge (minimum 1 minute) In order to comply with UL certification, use appropriate copper cables of indicated cross section, designed for an operating temperatures of: 60°C for ambient up to 45°C 75°C for ambient up to 60°C 90°C for ambient up to 70°C Strip the connecting ends of the wires according to the indication and ensure that all strands of a stranded wire enter the terminal connection (see Fig.5) 4) Input protection: the device input is provided with varistors against overvoltage. Input isn't provided with internal fuses, thus an external short circuit/overcurrent protection must be provided by the end user (see Fig.6). For operation on a single-phase system, a protection fuse must be provided. Surge protection: it is strongly recommended to provide external surge arresters (SPD) according to local regulations. 5) AC input connection: the device can be connected to single-phase AC lines with Uin 230Vac (see Fig.7). Please connect first the PE 6) DC input connection: connect L terminal to (+) positive pole, N terminal to (-) negative pole and I terminal to GND. Rated voltage 250...375Vdc. The device is also suitable for photovoltaic or wind turbine applications (see Fig.7). 7) Output connection: The device is suitable for SELV and PELV circuitry. Uout can be adjusted with a potentiometer to a wide range (see Fig.1) Check Uout before connecting the power supply to the load. With output voltage set to the max. value, the continuous [current x voltage] must not exceed the nominal power. 8) Parallel connection and redundancy: power supplies can be connected in parallel to increase power. Uout must be set uniformly (±100mV) on each power supply and the wiring must be symmetrical to ensure an equal current distribution. For redundant connection, use an external isolating device must be used (see accessory device). 9) Output protection: the device is protected against overload (OL) / short circuit (SC) / overvoltage (OV) / overtemperature (OT). OL and SC: are controlled by a hiccup mode auto-reset protection with the following behaviour. OL behaviour: Max. OL = In x 1.5 with constant output voltage for max 5s. If the current is \geq In x 1.5 the unit enters the OL protection and starts an ON/OFF cycle (hiccup mode) SC behaviour: the device supplies the indicated short circuit peak current for 250ms if the output current exceeds In x 1.5 the device enters into a controlled ON/OFF cycles (hiccup mode). The output voltage drops to a voltage value depending on the impedance of the failed load circuit. Output OV circuit protection: the output is protected against potential OV due to internal malfunction or coming from the load for Uout ≥ Unom x 1.2 – 1.3, depending on the model. OT protection: turns off the device if the internal temperature exceeds a safe limit. The device restarts automatically after cooling down. To recover to normal operation reduce air temperature surrounding the power supply, increase cooling or reduce load (see Fig.8)

10) Feeding DC motors: it is possible to feed DC motors considering that when a motor starts-up under effort its consumption is much higher than the nominal current and it can trigger overcurrent protection (see accessory device).

NOTE: motors can generate high conducted noise on the DC line. Therefore it is not recommended to feed on the same line motors and equipment sensitive to noise.

11) Operation with Battery: when a battery is connected in parallel to the Output for backup purposes (see accessory device).



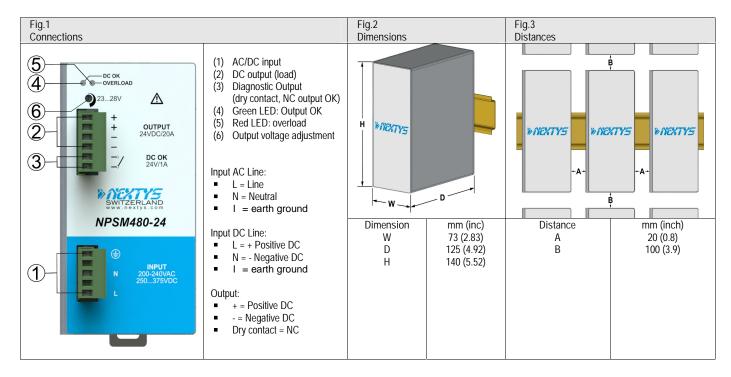


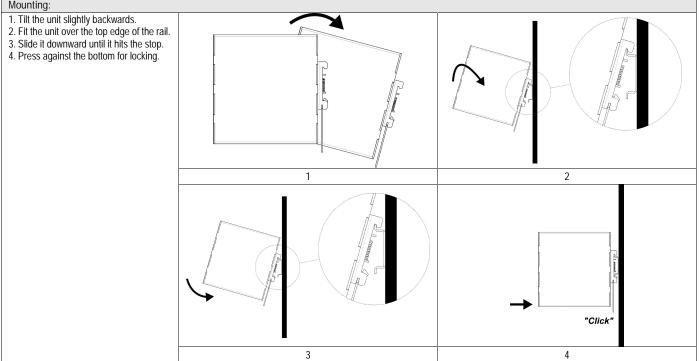
Fig.4

Mounting / Dismounting Instructions

For DIN rail fastening according to IEC 60715 TH35-7.5(-15)

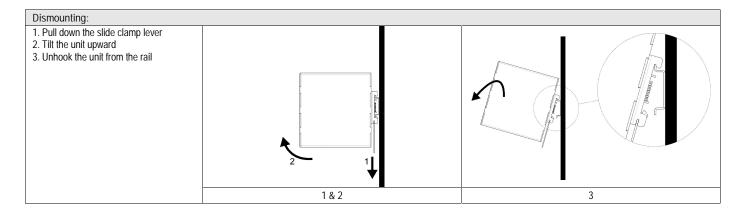
Mounting as shown in figure, with input terminals on lower side, with suitable cooling and maintaining a proper distance between adjacent devices as specified in the I.S. manual of each family.

Mounting:



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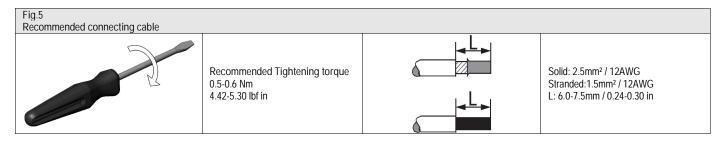


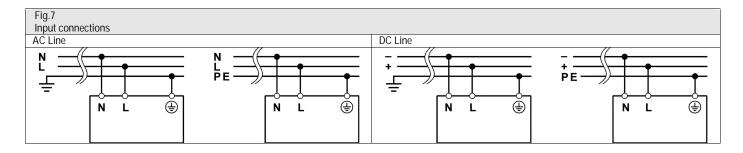
Fig.6

Input protection

Fuse 6.3AT or MCB 6A C curve or 4A D curve.

For USA and Canada, use the fuse type closest to the European equivalent type.

Surge protection: it is strongly recommended to provide external surge arresters (SPD) according to local regulations.



Derating
- 10W/°C over 45°C

Note:

- Data may change without prior notice in order to improve the product. Please refer to the latest version of the "Instruction Manual" for each product by visiting <u>www.nextys.com</u>

See also the produc	cts below that can be used in conjunction with NPSM480-24 units:	(accessory device)
 OR20 	20A Active ORing controller	
 OR50 	50A Active ORing controller	
 DCU20 	20A High performance DC UPS	
 BU150U 	150J Buffer Module	
 NUPS12/24 	Battery charger and DC UPS Module	
 MBC2K 	2000W Motor brake controller	
 NBP30 	Sealed Lead acid Battery pack	