

WEPS160-26 - Single or 2 Phases input switching power supply

■ Main Features:

- High efficiency
- 1 or 2 phases input AC 187...528Vac
- Latched overload and short-circuit protection
- Excellent field reliability record
- Designed in according to EN12015, EN12016 for elevator use



INDEX	
	Page
Installation Requirements	2
Declaration of Conformity	2
User Instructions	3
Connections	4
Dimensions	4
Distances	4
Mounting (horizontal)	4
Dismounting (horizontal)	5
Mounting (vertical)	5
Dismounting (vertical)	6
Input Connections	6
Environment	6
Accessory Device	6



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	caratteristiche e la sicurezza dell'apparecchio e causare	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,	
Don't open the device, it does not contain replaceable		le déclenchement du fusible interne (le cas échéant) est	
components, the tripping of the internal fuse (if included) is		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.		
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	raffreddare il dispositivo prima di toccarlo. Non far entrare liquidi		
		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	
before having previously turned-off input power and wait for		déconnecter l'équipement jusqu'à ce que vous avez supprimé	
internal capacitors discharge (minimum 1 minute).		la tension d'entrée et avant qu'elle n'ait lieu de décharge des	
	1 minuto).	condensateurs internes (minimum 1 minute).	



www.nextys.com

NEXTYS SA.

Via Luserte Sud 6, 6572 Quartino - Switzerland

Phone: +41-(0)91 840 14 46 / 840 14 48; Fax: +41-(0)91 840 14 47

E-mail: info@nextys.com

This Declaration of Conformity is suitable to the European Standard EN45014 "General criteria for supplier's declaration of conformity".

We declare under our sole responsibility that the device included in this box, has passed all processing inspections and the final test and it is in conformity with the product requirements, including all reference codes and supply specifications.

ROHS compliance: the product respects the EC requirements related to ROHS substances, according to "Restriction of Hazardous Substances" as per document 2011/65/UE REACH compliance: the product respects the EC requirements related to REACH SVHC directive (EC) 1907/2006

DECLARATION OF CONFORMITY

Note: all the reported information comes from our suppliers, NEXTYS SA. has not run any test to evaluate if the specific elements are present.

All indicated devices are designed according to the latest Reference standards, if not expressly indicated through the official documents or files, they have been tested through our internal pre-compliance testing. Consult directly on www.nextys.com the reference standards applied to each model.

Code Description

WEPS160-26 Single or 2 Phases Switching power supply IN 187 - 528Vac / OUT 26Vdc - 6A

Certifications and approvals	CE	RoHS _{2011/65/EU}	Pb lead-free
	2014/35/EU 2014/30/EU	(Low Voltage Directive) (EMC directive)	
	EN61010-1 EN61010-2-201	(Safety Standard) (Safety Standard)	
	UL508	(Safety Standard)	
	EN61000-6-2	(Generic immunity standard for industrial environments)	
Defense estandante	- EN61000-4-2	(Electrostatic discharge immunity test)	
Reference standards - EN61000-4-3 - EN61000-4-4		(Radiated, radio-frequency, electromagnetic field immunity test) (Electrical fast transient/burst immunity test)	
	- EN61000-4-5	(Surge immunity test)	
	- EN61000-4-11	(Voltage dips, short interruptions and voltage immunity test)	
	EN12016	(Product Family Standard for Lifts, Escalators and Moving Walks – Immunity)	
	EN61000-6-3	(Generic emission standard for residential environments)	
	- EN55011	(CISPR11 - EMC)	
	EN12015	(Product family standard for lifts, escalators and moving walks - Emission)	



USER INSTRUCTIONS

1) Description: DIN rail mountable primary switched-mode power supply with 187...528Vac input, suitable for Single or 2 Phases main 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).

Be sure to check that the mounting DIN rail is properly connected to earth (PE) before mounting the device

WARNING: Do not insert/ remove any wire if the device is not fixed to the DIN rail.

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 international standard 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 or 2 phases system, a protection fuse on each phases 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 and 2 Phases line with Uin 187...528Vac (see Fig.7). Please connect first the PE.

6) Output connection: The device is suitable for SELV and PELV circuitry.

Uout cannot be adjusted.

7) Output protection the device is protected against overload (OL) / short circuit (SC) / overvoltage (OV) / overtemperature (OT).

Triggering of one of the protections is indicated by the red LED "ALARM" (see Fig.1).

All protections are controlled by a latched off mode with the following behaviour.

OL behaviour: When the current exceeds the rated current and stays above it for more than 5s, the protection is triggered is and the output is switched off latched.

SC behaviour: When the output is short circuited the output is immediately switched off and latched off.

Output OV protection: the output is protected against potential overvoltage due to internal malfunction; the output is immediately switched off and latched off.

OT protection: turns off the device if the internal temperature exceeds a safe limit. The device is automatically restarted when the temperature decreases within normal limits.

To recover the device to normal operation when the output is latched off, the mains must be turned off for more than 10 seconds and then turned on again. Before doing it please check the output load for short circuits or overloads.

8) 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.

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.



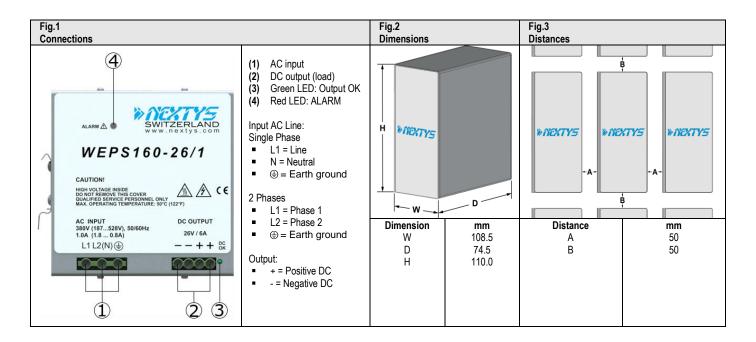


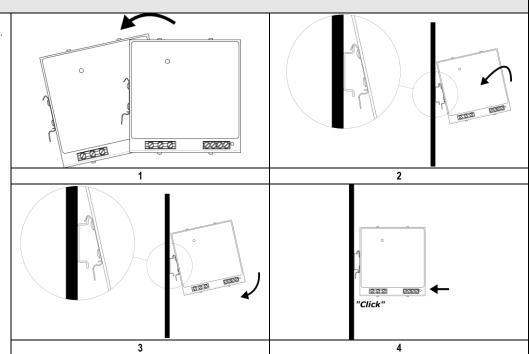
Fig.4 Mounting / Dismounting Instructions

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.

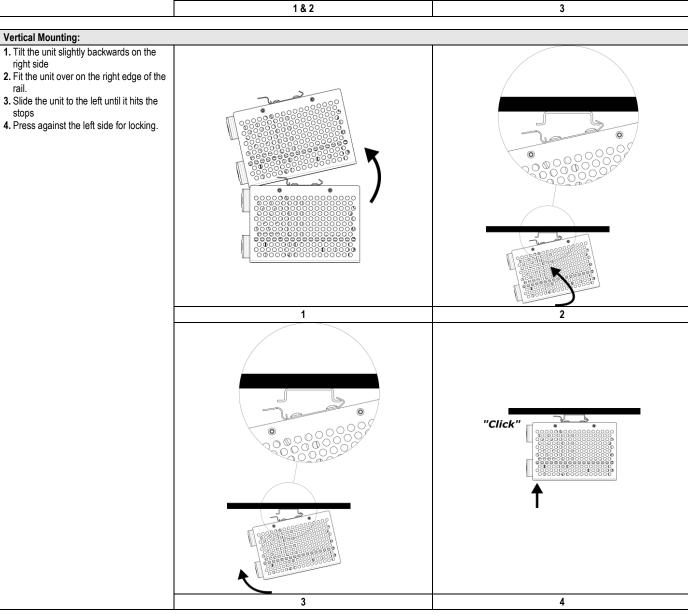
Horizontal Mounting:

- 1. Tilt the unit slightly to the left.
- 2. Fit the unit over the top edge of the rail.
- 3. Slide it downward until it hits the stop.
- 4. Press against the bottom for locking.





Dismounting: 1. Pull the unit from the bottom by tilting it upwards. 2. Tilt the unit upward 3. Unhook the unit from the rail 18.2





Dismounting: 1. Pull the unit from the left side by tilting it to the right 2. Tilt the unit to the right 3. Unhook the unit from the rail "Click" 1 & 2 3

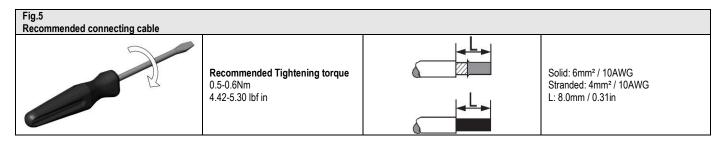


Fig.6 Input protection

Fuses 4AT or MCB 6A C 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.

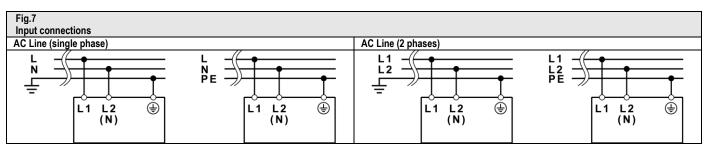


Fig.8 Environment		
Operating temperature	Derating	
- 40°C50°C		
595% r.H. non condensing	- 15W/°C over 45°C	
Overtemperature protection		

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>

_		A L L A L L L L L L L L L L L L L L L L	(accessory device)			
S	See also the products below that can be used in conjunction with WEPS160-26 unit:					
	OR20	20A Active ORing controller				
	OR50	50A Active ORing controller				
-	BU150U	150J Buffer Module				
	MBC2K	2000W Motor brake controller				