



Read this first!	English	Vor Inbetriebnahme lesen!	Deutsch
<p>WARNING Risk of electrical shock, fire, personal injury, or death:</p> <p>Before operating this device, please read this manual thoroughly and retain this manual for future reference! This device may only be installed and put into operation by qualified personnel. If damage or malfunction should occur during operation, immediately turn power off and send device to the factory for inspection. The device does not contain serviceable parts. The information presented in this document is believed to be accurate and reliable and may change without notice. For any clarifications the English translation will be used.</p>		<p>WARNING Missachtung nachfolgender Punkte kann einen elektrischen Schlag, Brände, schwere Unfälle oder Tod zur Folge haben:</p> <p>Bitte lesen Sie diese Warnungen und Hinweise sorgfältig durch, bevor Sie das Gerät in Betrieb nehmen. Bewahren Sie die Anleitung zum Nachlesen auf. Das Gerät darf nur durch fachkundiges und qualifiziertes Personal installiert werden. Bei Funktionsstörungen oder Beschädigungen schalten Sie sofort die Versorgungsspannung ab und senden das Gerät zur Überprüfung ins Werk. Das Gerät beinhaltet keine Servicebauteile. Die angegebenen Daten dienen allein der Produktbeschreibung und sind nicht als zugesicherte Eigenschaften im Rechtssinne aufzufassen. Im Zweifelsfall gilt der englische Text.</p>	
<p>Turn power off before working on the device and protect against inadvertent re-powering.</p> <p>Do not open, modify or repair the device.</p> <p>Use caution to prevent any foreign objects from entering the housing.</p> <p>Do not use in wet locations or in areas where moisture or condensation can be expected.</p> <p>Do not touch during power-on and immediately after power-off. Hot surfaces may cause burns.</p>		<p>Schalten Sie die Eingangsspannung vor Installations-, Wartungs- oder Änderungsarbeiten ab und sichern Sie diese gegen unbeabsichtigtes Wiedereinschalten.</p> <p>Führen Sie keine Änderungen oder Reparaturen durch. Gerät nicht öffnen! Verhindern Sie das Eindringen von Fremdkörpern.</p> <p>Betreiben Sie das Gerät nicht in feuchter Umgebung oder in einer Umgebung, bei der mit Betaubung oder Kondensation zu rechnen ist.</p> <p>Gehäuse nicht während des Betriebes oder kurz nach dem Abschalten berühren. Heiße Oberflächen können Verletzungen verursachen.</p>	
<p>A lire avant mise sous tension!</p> <p>Veuillez lire ces instructions de montage et d'entretien avant de mettre l'alimentation sous tension. Conservez ce manuel qui vous sera toujours utile. Cette alimentation ne doit être installée que par du personnel qualifié et compétent. En cas de dommage ou dysfonctionnement, coupez immédiatement la tension d'alimentation et retournez l'appareil à l'usine pour vérification. ! L'alimentation ne contient pas de pièces échangeables Les données indiquées dans ce document servent uniquement à donner une description du produit et n'ont aucune valeur juridique. En cas de divergences, le texte anglais fait foi.</p>	<p>AVERTISSEMENT Prendre en compte les points suivants, afin d'éviter toute détérioration électrique, incendie, dommage aux personnes ou mort:</p> <p>Mettre l'alimentation hors tension avant toute intervention sur celle-ci et s'assurer qu'il n'y a pas risque de redémarrage.</p> <p>Ne pas ouvrir, modifier ou réparer l'alimentation.</p> <p>Veiller à ce qu'aucun objet ne rentre en contact avec l'intérieur de l'alimentation (trombones, pièces métalliques).</p> <p>Ne pas faire fonctionner l'appareil dans un environnement humide ou dans un environnement où il peut y avoir de la condensation.</p> <p>Ne pas toucher le carter pendant le fonctionnement ou directement après la mise hors tension. Surface chaude risquant d'entraîner des blessures.</p>	<p>Lea primero!</p> <p>Conserve este manual como referencia para futuras consultas. La fuente de alimentación solo puede ser instalada y puesta en funcionamiento por personal cualificado. Por favor lea detenidamente este manual antes de conectar la fuente de alimentación. Si se produce un fallo o mal funcionamiento durante la operación, desconecte inmediatamente la tensión de alimentación. En ambos casos, el equipo debe ser inspeccionado en fábrica. La información presentada en este documento es exacta y fiable en cuanto a la descripción del producto y puede cambiar sin aviso. En caso de duda, prevalece el texto inglés.</p>	<p>ADVERTENCIA Riesgo de descarga eléctrica, incendio, accidente grave o muerte:</p> <p>Desconectar la tensión de red antes de trabajar en la fuente de alimentación. Evite una posible reconexión involuntaria.</p> <p>No realizar ninguna modificación o reparación de la unidad. No abrir la unidad. Evitar la introducción en la carcasa de objetos extraños.</p> <p>No usar el equipo en ambientes húmedos. No operar el equipo en ambientes donde se espera la formación de rocío o condensación.</p> <p>No tocar durante el funcionamiento ni inmediatamente después del apagado. El calor de la superficie puede causar quemaduras graves.</p>

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Product Description

The PS1061-2410-0000 is a DIN-rail mountable single-phase-input power supply, which provides a floating, stabilized and galvanically separated SELV/PELV output voltage.

Intended Use

This device is designed for installation in an enclosure and is intended for commercial use, such as in industrial control, process control, monitoring, measurement equipment or the like. Do not use this device in equipment, where malfunctioning may cause severe personal injury or threaten human life without additional appropriate safety devices, that are suited for the end-application.

If this device is used in a manner outside of its specification, the protection provided by the device may be impaired.

Without additional measures to reduce the harmonic input current (PFC), the power supply is not suited to be connected to the public mains system in residential, commercial and light-industrial environments. No additional measures are necessary for use in industrial environments. Exceptions for various countries outside the European Union exist and can be determined locally.

Do not use this device on AC 200V mains with more than 8A load when the application is sensitive to short output voltage dips during mains interruptions even with a length shorter than 20ms.

Installation Instructions

Install device in an enclosure providing protection against electrical, mechanical and fire hazards.

Install the device onto a DIN-rail according to EN 60715 with the input terminals on the bottom of the device.

Make sure that the wiring is correct by following all local and national codes. Use appropriate copper cables that are designed for a minimum operating temperature of 60°C for ambient temperatures up to +45°C, 75°C for ambient temperatures up to +55°C and 90°C for ambient temperatures up to +70°C. Ensure that all strands of a stranded wire enter the terminal connection. Unused screw terminals should be securely tightened.

The device is designed for pollution degree 2 areas in controlled environments. No condensation or frost is allowed.

The enclosure of the device provides a degree of protection of IP20. The enclosure does not provide protection against spilled liquids.

The device is designed for overvoltage category II zones. Below 2000m altitude the device is tested for impulse withstand voltages up to 4kV, which corresponds to OVC III according to IEC 60664-1.

The device is designed as "Class of Protection" I equipment according to IEC 61140. Do not use without a proper PE (Protective Earth) connection.

The device is suitable to be supplied from TN, TT or IT mains networks. The continuous voltage between the input terminal and the PE potential must not exceed 300Vac.

A disconnecting means shall be provided for the input of the device.

The device is designed for convection cooling and does not require an external fan. Do not obstruct airflow and do not cover ventilation grid!

The device is designed for altitudes up to 5000m (16400ft). Above 2000m (6560ft) a reduction in output current is required.

Keep the following minimum installation clearances: 40mm on top, 20mm on the bottom, 5mm left and right side. Increase the 5mm to 15mm in case the adjacent device is a heat source. When the device is permanently loaded with less than 50%, the 5mm can be reduced to zero.

The device is designed, tested and approved for branch circuits up to 20A without additional protection device. For higher branch circuits use an additional protection device. If an external input protection device is utilized, do not use one smaller than a 16A B- or 10A C-characteristic to avoid nuisance tripping of the circuit breaker.

The maximum surrounding air temperature is +70°C (+158°F). The operational temperature is the same as the ambient or surrounding air temperature and is defined 2cm below the device.

The device is designed to operate in areas between 5% and 95% relative humidity.

Functional Description

The output is electronically protected against no-load, overload and short circuit and can supply any kind of loads, including inductive and capacitive loads.

Do not apply return voltages from the load to the output terminals higher than 35V.

The output voltage can be adjusted with a small flat-blade screwdriver on the front of the unit.

The green DC OK LED reports an output voltage above 18V of a running device.

The DC OK relay monitors the output voltage of a running device. The contact is closed when the output voltage is above 22V. Contact ratings: 60Vdc 0.3A, 30Vdc 1A, 30Vac 0.5A for resistive loads.

The device is equipped with an over-temperature protection. In case of a high temperature, the output shuts down and starts automatically again after cooling off.

Do not parallel devices for higher output currents.

Same devices can be connected in series for higher output voltages. It is allowed to connect as many devices in series as needed, providing the sum of the output voltage does not exceed 150Vdc.

In case of an internal defect, a redundant circuit limits the maximum output voltage to 34V. The output shuts down and automatically attempts to restart.

Technical Data

All values are typical figures specified at 230Vac 50Hz input voltage, 24V 10A output load, 25°C ambient temperature and after a 5 minutes run-in time unless otherwise noted.

Output voltage	DC 24V	Nominal
Adjustment range	24 – 28Vdc	Factory setting 24.1V
Output current	10.0 – 8.6A	Below +55°C ambient
	6.25 – 5.4A	At +70°C ambient
	Derate linearly between +55°C and +70°C	

Input voltage AC	AC 200 – 240V	±10%
Mains frequency	50 – 60Hz	±6%

Input current AC	2.2A	
Power factor	0.52	

Input inrush current	48A pk	At 40°C
Efficiency	91.4%	

Power losses	22.6W	
Hold-up time	33ms	

Temperature range	-10 to +70°C	
Max. wire size (litz wire)	4mm ²	Power terminals

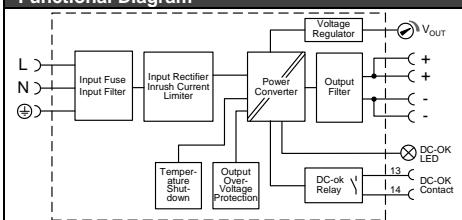
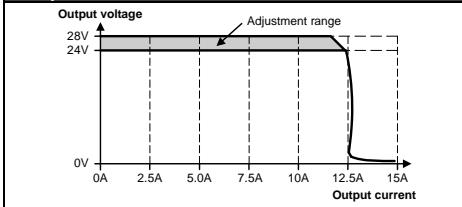
Wire size AWG	AWG 20-10	Power terminals
Max. wire diameter	2.8mm	Power terminals

Wire stripping length	7mm / 0.28inch	Power terminals
Tightening torque	1Nm / 9lb.inch	Power terminals

Max. wire size (litz wire)	1.5mm ²	DC-OK terminals
Wire size AWG	AWG 24-16	DC-OK terminals

Max. wire diameter	1.6 mm	DC-OK terminals
Wire stripping length	7mm / 0.28inch	DC-OK terminals

Size (wxhxd)	49x124x124mm	Without DIN-rail
Weight	550g / 1.21lb	

Functional Diagram**Output Characteristic****Temperature Range**