EN	**PS1000-A6-12.16 Installation Manual**	**Power Supply 1-Phase, 12V, 16A, 192W**
DE	**PS1000-A6-12.16 Installationsanleitung**	**Stromversorgung 1-Phase, 12V, 16A, 192W**
FR	**PS1000-A6-12.16 Manuel d'installation**	**Alimentation d'Énergie 1-Phase, 12V, 16A, 192W**
ES	**PS1000-A6-12.16 Manual de instalación**	**Fuente De Alimentación 1-Phase, 12V, 16A, 192W**
IT	**PS1000-A6-12.16 Manuale di Installazione**	**Gruppo di alimentazione 1-Phase, 12V, 16A, 192W**
PT	**PS1000-A6-12.16 Manual de instalação**	**Fonte De Alimentação 1-Phase, 12V, 16A, 192W**

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Read this first! — English

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.

For specific device information such as the year of construction, scan the QR code on the device. As an alternative, enter the serial number in the serial number search at www.pepperl-fuchs.com/device-information.

⚠ WARNING **Risk of electrical shock, fire, personal injury, or death:**

- Turn power off before working on the device. Protect against inadvertent re-powering.
- Do not open, modify or repair the device.
- Use caution to prevent any foreign objects from entering the housing.
- Do not use in wet locations or in areas where moisture or condensation can be expected.
- Do not touch during power-on and immediately after power-off. Hot surfaces may cause burns.

Vor Inbetriebnahme lesen! — Deutsch

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.

Sie finden spezifische Geräteinformationen wie z. B. das Baujahr, indem Sie den QR-Code auf dem Gerät scannen. Alternativ geben Sie die Seriennummer in der Seriennummernsuche unter www.pepperl-fuchs.com/device-information ein.

⚠ WARNUNG **Missachtung nachfolgender Punkte kann einen elektrischen Schlag, Brände, schwere Unfälle oder Tod zur Folge haben:**

- Schalten Sie die Eingangsspannung vor Installations-, Wartungs- oder Änderungsarbeiten ab und sichern Sie diese gegen unbeabsichtigtes Wiedereinschalten.
- Führen Sie keine Änderungen oder Reparaturversuche am Gerät durch. Gerät nicht öffnen!
- Verhindern Sie das Eindringen von Fremdkörpern, wie z.B. Büroklammern und Metallteilen.
- Betreiben Sie das Gerät nicht in feuchter Umgebung oder in einer Umgebung, bei der mit Betauung oder Kondensation zu rechnen ist.
- Gehäuse nicht während des Betriebes oder kurz nach dem Abschalten berühren. Heiße Oberflächen können Verletzungen verursachen.

A lire avant mise sous tension! — Français

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.

Pour obtenir des informations spécifiques sur l'appareil, comme l'année de construction, scannez le code QR situé sur l'appareil. Vous pouvez également saisir le numéro de série dans la zone de recherche dédiée sur le site www.pepperl-fuchs.com/device-information.

⚠ AVERTISSEMENT **Prendre en compte les points suivants, afin d'éviter toute détérioration électrique, incendie, dommage aux personnes ou mort:**

- Mettre l'alimentation hors tension avant toute intervention sur celle-ci et s'assurer qu'il n'y a pas risque de redémarrage.
- Ne pas ouvrir, modifier ou réparer l'alimentation.
- Veiller à ce qu'aucun objet ne rentre en contact avec l'intérieur de l'alimentation (trombones, pièces métalliques).
- Ne pas faire fonctionner l'appareil dans un environnement humide ou dans un environnement où il peut y avoir de la condensation.
- Ne pas toucher le carter pendant le fonctionnement ou directement après la mise hors tension. Surface chaude risquant d'entraîner des blessures.

Lea primero! — Español

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 casa de duda, prevalece el texto inglés.

Para obtener información específica sobre el dispositivo, como el año de fabricación, escanee su código QR. También puede introducir el número de serie en el campo de búsqueda de números de serie en www.pepperl-fuchs.com/device-information.

⚠ ADVERTENCIA **Riesgo de descarga eléctrica, incendio, accidente grave o muerte:**

- Desconectar la tensión de red antes de trabajar en la fuente de alimentación. Evite una posible reconexión involuntaria.
- No realizar ninguna modificación o reparación de la unidad. No abrir la unidad.
- Evitar la introducción en la carcasa de objetos extraños.
- No usar el equipo en ambientes húmedos. No operar el equipo en ambientes donde se espere la formación de rocío o condensación.
- No tocar durante el funcionamiento ni inmediatamente después del apagado. El calor de la superficie puede causar quemaduras graves.

Leggere prima questa parte! — Italiano

Prima di collegare il sistema di alimentazione elettrica si prega di leggere attentamente le seguenti avvertenze. Conservare le istruzioni per la consultazione futura. Il sistema di alimentazione elettrica deve essere installato solo da personale competente e qualificato. Se durante il funzionamento si verificano anomalie o guasti, scollegare immediatamente la tensione di alimentazione. In entrambi i casi è necessario far controllare l'apparecchio dal produttore! I dati sono indicati solo a scopo descrittivo del prodotto e non vanno considerati come caratteristiche garantite dell'apparecchio. In caso di differenze o problemi è valido il testo inglese.

Per informazioni specifiche sull'apparecchio, ad esempio l'anno di costruzione, scansionare il codice QR sull'apparecchio. In alternativa, immettere il numero di serie nella ricerca numeri di serie all'indirizzo www.pepperl-fuchs.com/device-information.

⚠ AVVERTENZA **Il mancato rispetto delle seguenti norme può provocare folgorazione elettrica, incendi, gravi incidenti e perfino la morte:**

- Prima di eseguire interventi di installazione, di manutenzione o di modifica scollegare la tensione di rete ed adottare tutti i provvedimenti necessari per impedirne il ricollegamento non intenzionale.
- Non tentare di aprire, di modificare o di riparare da soli l'apparecchio.
- Impedire la penetrazione di corpi estranei nell'apparecchio, ad esempio fermagli o altri oggetti metallici.
- Non far funzionare l'apparecchio in un ambiente umido. Non far funzionare l'apparecchio in un ambiente soggetto alla formazione di condensa o di rugiada.
- Non toccare quando acceso e subito dopo lo spegnimento. La superficie calda può causare scottature.

Leia primeiro! — Português

Recomendamos a leitura cuidadosa das seguintes advertências e observações, antes de colocar em funcionamento a fonte de alimentação. Guarde as Instruções para futura consulta, em casos de dúvida. A fonte de alimentação deverá ser instalada apenas por profissionais da área, tecnicamente qualificados. Se por acaso, durante a utilização ocorrer algum defeito de funcionamento ou dano, desligue imediatamente a tensão de alimentação. Em ambos os casos, será necessária uma verificação na Fábrica! Os dados mencionados têm como finalidade somente a descrição do produto, e não devem ser interpretados como propriedades garantidas no sentido jurídico. Em caso de duvidas aplica-se o texto em inglês.

Para obter informações específicas sobre o dispositivo, como o ano de construção, leia o código QR no dispositivo. Em alternativa, introduza o número de série na pesquisa por número de série em www.pepperl-fuchs.com/device-information.

⚠ ATENÇÃO **A não observância ou o incumprimento dos pontos a seguir mencionados, poderá causar uma descarga elétrica, incêndios, acidentes graves ou morte:**

- Antes de trabalhos de instalação, manutenção ou modificação, desligue a tensão de alimentação, protegendo-a contra uma nova ligação involuntária.
- Não efectue nenhuma modificação ou tentativa de reparação no aparelho. Quando necessário contacte o seu distribuidor. Não abra o aparelho.
- Proteger a fonte de alimentação contra a introdução inadvertida de corpos metálicos, como por ex., clipes ou outras peças de metal.
- Não usar o aparelho em ambientes húmidos. Não usar o aparelho em ambientes propensos a condensações.
- Não tocar enquanto estiver em funcionamento, nem após a desligar. A superficie poderá estar quente e provocar lesões.

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The information in this document is believed to be accurate and reliable and may change without notice.

Product Description

The PS1000-A6-12.16 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 and 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 application.

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

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. Other mounting orientations require a reduction in output current.

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 +60°C and 90°C for ambient temperatures up to +70°C. Ensure that all strands of a stranded wire enter the terminal connection. Use ferrules for wires on the input terminals. 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 isolation of the device is designed to withstand impulse voltages of overvoltage category 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.

The input can also be powered from batteries or similar DC sources. The continuous voltage between the supply voltage and the PE/ground potential must not exceed 375Vdc.

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. Above 2000m a reduction in output current and over voltage category 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 32A (IEC) and 30A (UL) without additional protection device. If an external fuse is utilized, do not use circuit breakers smaller than 6A B- or C-Characteristic to avoid a nuisance tripping of the circuit breaker.

The maximum surrounding air temperature is +70°C. 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.

Installation Instructions for Hazardous Location Areas

The device is suitable for use in Class I Division 2 Groups A, B, C, D locations and for use in Group II Category 3 (Zone 2) environments.

Classification: ATEX: EPS 15 ATEX 1 101 X, II 3G Ex ec nC IIC T4 Gc / IECEx EPS 15.0079X

WARNING EXPLOSION HAZARDS!

Use only in standard vertical mounting orientation with the input terminals on bottom of the unit.

Substitution of components may impair suitability for this environment.

Do not disconnect the device or operate the voltage adjustment unless power has been switched off or the area is known to be non-hazardous.

A suitable enclosure must be provided for the end product, which has a minimum protection of IP54 and fulfils the requirements of the EN 60079-0.

Functional Description

The output is electronically protected against no-load, overload and short circuit and can supply any kind of loads, including unlimited inductive and capacitive loads. If capacitors with a capacitance >5F are connected, the unit might charge the capacitor in an intermittent mode.

Do not apply return voltages from the load to the output terminals higher than 25V.

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 90% of the adjusted voltage of a running device.

The DC-OK relay monitors the output voltage and the contact is closed when the DC-OK LED is on. 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.

At heavy overloads (when output voltage falls below 6.5V), the device delivers continuous output current for 2s. After this, the output is switched off for 18s before a new start attempt is automatically performed. This cycle is repeated as long as the overload exists.

Devices can be paralleled to increase the output power. The ambient temperature is not allowed to exceed +40°C. The output voltage shall be adjusted to the same value (±100mV) with the same load conditions on all devices, or the devices can be left with the factory settings. Energize all units at the same time. It also might be necessary to cycle the input power (turn-off for at least five seconds), if the output was in overload or short circuit. If more than three devices are connected in parallel, a diode, fuse or circuit breaker with a rating of 25A or 32A is required on each output.

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 19V. The output shuts down and automatically attempts to restart.

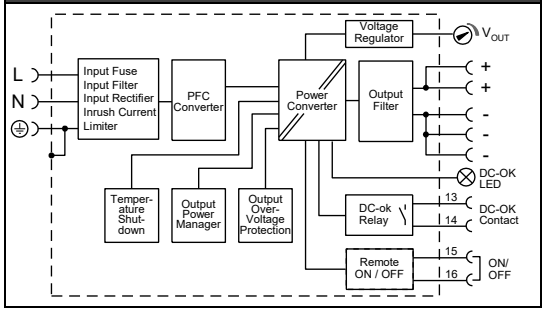
The device is equipped with a remote ON/OFF function. Link pin 15 and 16 to turn the output off.

Technical Data

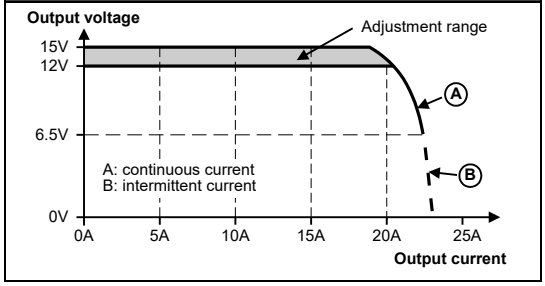
All values are typical figures specified at 230Vac 50Hz input voltage, 12V 16A output load, 25°C ambient temperature and after a 5 minutes run-in time unless otherwise noted.

Output voltage	DC 12V	Nominal
Adjustment range	12 – 15Vdc	Factory setting 12.0V
Output current	19.2 – 15.4A	Below +45°C ambient
	16.0 – 12.8A	At +60°C ambient
	12.0 – 9.6A	At +70°C ambient
	Derate linearly between +45°C and +70°C	
Input voltage AC	AC 100 - 240V	-15% / +10%
Mains frequency	50 – 60Hz	±6%
Input current AC	1.74 / 0.92A	At 120 / 230Vac
Power factor	0.99 / 0.96	At 120 / 230Vac
Input voltage DC	DC 110 - 150V	±20%
Input current DC	1.9A	At 110Vdc
Input inrush current	6 / 9A pk	At 120 / 230Vac, 40°C, cold start
Efficiency	92.8 / 94.3%	At 120 / 230Vac
Power losses	14.9 / 11.6W	At 120 / 230Vac
Hold-up time	50 / 50ms	At 120 / 230Vac
Temperature range	-25 to +70°C	
Max. wire size (litz wire)	4mm²	Power terminals
Wire size AWG	AWG 20-10	Power terminals
Max. wire diameter	2.8mm	Power terminals
Wire stripping length	7mm	Power terminals
Tightening torque	1Nm	Power terminals
Max. wire size (litz wire)	1.5mm²	Signal terminals
Wire size AWG	AWG 24-16	Signal terminals
Max. wire diameter	1.6 mm	Signal terminals
Wire stripping length	8mm	Signal terminals
Size (wxhxd)	39x124x117mm	Without DIN-rail
Weight	600g	

Functional Diagram



Output Characteristic



Temperature Range

