

EN	UZK24.262/-E1, UZO24.262/-E1 Installation Manual
DE	UZK24.262/-E1, UZO24.262/-E1 Installationsanleitung
FR	UZK24.262/-E1, UZO24.262/-E1 Manuel d'installation
ES	UZK24.262/-E1, UZO24.262/-E1 Manual de instalación
IT	UZK24.262/-E1, UZO24.262/-E1 Manuale di Installazione
PT	UZK24.262/-E1, UZO24.262/-E1 Manual de instalação

Battery Module 24V, 26Ah, 40A
Batteriemodul 24V, 26Ah, 40A
Pack batterie 24V, 26Ah, 40A
Módulo de batería 24V, 26Ah, 40A
Kit de batteria 24V, 26Ah, 40A
Módulo de batería 24V, 26Ah, 40A

PULS



Doc. ID: PU-393.015.09-xxB (2022-04-26-MK3)



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.

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.

WARNING 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

Veillez 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.

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.

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

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 dúvidas aplica-se o texto em inglês.

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., cliques 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 superfície poderá estar quente e provocar lesões.

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Product Description

The UZK24.262 battery module utilizes 2 non-spillable maintenance-free VRLA lead-acid batteries. The battery module includes the connector module UZW24.100 which provides an auto-resettable fuse, temperature sensor and terminals for paralleling of a battery extension module.

The auto-resettable fuse is suitable for balancer currents up to 2.5A. It protects the center-tap wire between the battery module and the DC-UPS control unit.

The use of the sensor board enables to monitor and charge the two batteries individually and precisely, which extends the service life of the batteries and makes the use of matched replacement batteries unnecessary. The use of the sensor board signal connections is optional, the DC-UPS will also function without the sensor board installed.

The UZK24.262 is compatible with most of the PULS DC-UPS control units and enables all the benefits of the PULS 1-Battery-Concept. It can be ordered as UZK24.262 (including batteries) or as UZO24.262 (comes without batteries; to be procured by customers).

For increase of battery capacity, UZK24.262-E1 (with batteries) and UZO24.262-E1 (comes without batteries) are the perfect match.

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 malfunction may cause severe personal injury or threaten human life.

Installation Instructions

This device does not contain serviceable parts, except the fuse or replacement battery. If malfunction should occur during installation or operation, first check the fuse and battery for proper functionality. If the unit is damaged or if the malfunction continues, immediately turn power off and send device to the factory for inspection.

Do not install the battery fuse until the installation work is complete.

Replacement fuses must be of the same type or an UL listed fuse with the same nominal value and characteristics.

Do not store batteries or battery modules at temperatures higher than 25°C or performance and lifetime may change.

Before initial use, check the last charging which is marked on the battery. If it is older than 9 month, replace the battery.

Do not store batteries longer than 9 months without charging or performance and lifetime may change. Every 9 months or whenever the open circuit voltage (OCV) falls below 25.2V, the battery module should be charged. Apply a charging voltage of 27.6V (at 25°C) for 72 hours. Batteries with an OCV below 24V should be disposed.

Do not short-circuit the battery poles or power wires and always check correct battery polarity.

Mount the device onto a flat surface. Do not install the battery module upside down.

Install the device in a cool area inside an enclosure providing protection against electrical, mechanical and fire hazards. Ensure sufficient ventilation by following the requirements of the EN 50272-2.

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

The enclosure of the device provides a degree of protection of IP00.

Do not use batteries other than the original batteries supplied by the manufacturer to avoid conflicts with agency approvals.

The maximum surrounding air temperature is +50°C (+122°F). The operational temperature is the same as the ambient or surrounding air temperature and is defined 2cm below the device. Charging is allowed up to +50°C.

Frequently charging below +5°C reduces the lifetime of the battery.

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

Do not use wires smaller than 6mm² (AWG 10) or longer than 2m (7ft) to avoid voltage drops on the connection between the battery module and the DC-UPS.

Connect the sensor board signals to the DC-UPS by using control wires with a minimum wire size of 0.5mm² (AWG 20) and the center tap with a minimum wire size of 1mm² (AWG 17).

Instructions for replacement and disposal of batteries:

Batteries need to be replaced periodically. The time interval depends on the ambient temperature in which the battery is used and on the number and depth of discharge cycles. In a typical application it is recommended to replace the batteries at least every 2 years. Disconnect battery fuse before replacing the batteries.

Always dispose batteries through a recycling organization. Optionally, batteries can be returned to the supplier or the battery manufacturer. Batteries must be completely discharged before recycling.

CAUTION: The unit contains wet cell batteries. Ventilation of the installation room in accordance with the rules of Canadian Electrical Code, part 1 is required if used in Canada.

Instructions for replacing and installing batteries:

ATTENTION! Disconnect battery fuse before replacing the battery

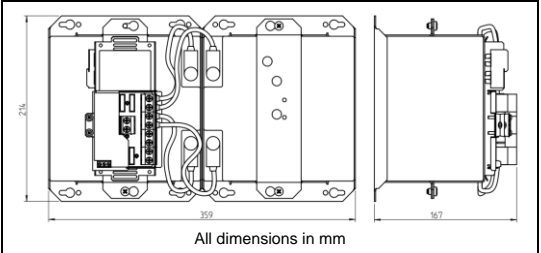
- 1) Loosen screw of battery holder with only one turn.
- 2) Remove Insulating caps from the battery terminals.
- 3) Unscrew the battery terminals.
- 4) Slide the mounting bracket sideways and take the mounting bracket off.
- 5) Remove the battery (if applicable).
- 6) Insert the new battery.
- 7) Fix it again with the mounting bracket and make sure that the lock washer lies between the screw head and mounting bracket.
- 8) Screw the mounting bracket with tightening torque: 2Nm (18 lb.inch).
- 9) Do not over-tighten screws of the terminal bolts of the battery. Recommended tightening torque: 2,5Nm (22 lb.inch).
- 10) Insert battery fuse.

Technical Data

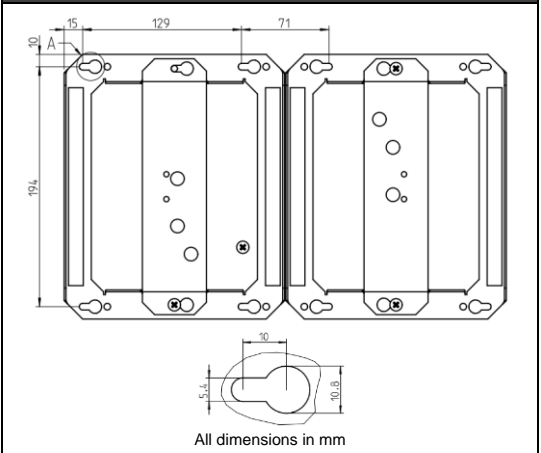
All values are typical figures unless otherwise noted.

Voltage	DC 24V	
Nominal battery capacity	26Ah	
Battery current	Max. 50A	Discharge current
	Max. 7.5A	Charging current
	Max. 2.5A	Balancer current
Recommended charging voltage	27.8V	At +10°C
	27.5V	At +20°C
	27.15V	At +30°C
	26.8V	At +40°C
Self-discharge rate	3% / month	At +20°C
Battery fuse	2*40A	ATOF® 287 040 from Littelfuse.
Temperature sensor	PT1000	
Temperature range	-10°C to +50°C	For charging
	-15°C to +50°C	For discharging
Storage temperature range	-20°C to +50°C	
Max. wire size (litz wire)	10mm ²	For power terminals
Wire size AWG	AWG 22-8	For power terminals
Maximum wire diameter	5.2mm	For power terminals
Wire stripping length	12mm / 0.5inch	For power terminals
Tightening torque	2.3Nm / 20lb.inch	For power terminals
Max. wire size (litz wire)	1.5mm ²	Sensor board terminals
Wire size AWG	AWG 26-14	Sensor board terminals
Maximum wire diameter	1.5mm	Sensor board terminals
Wire stripping length	5mm / 0.25inch	Sensor board terminals
Tightening torque	0.45Nm / 4lb.inch	Sensor board terminals
Cable length	0.2m	UZK(O)24.262
	1m	UZK(O)24.262-E1
Size (wxhxd)	359x214x167mm	UZK24.262 incl. UZW24.100
	359x214x128mm	UZK24.262-E1
Weight per module	10kg / 22lb	UZK24.262/-E1
	0.7kg / 1.54lb	UZO24.262/-E1

Mechanical Dimensions

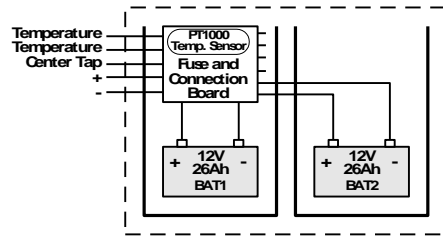


Hole Pattern for Wall Mounting

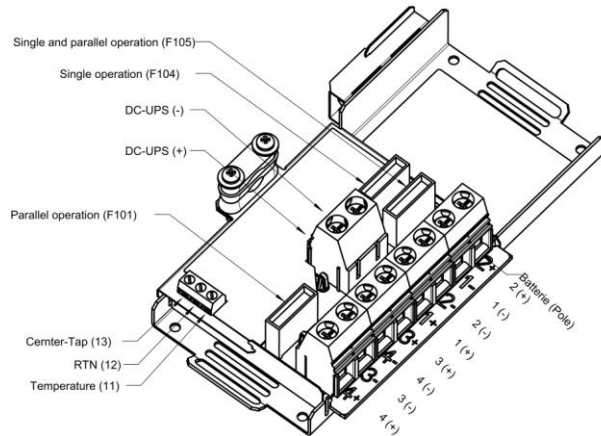
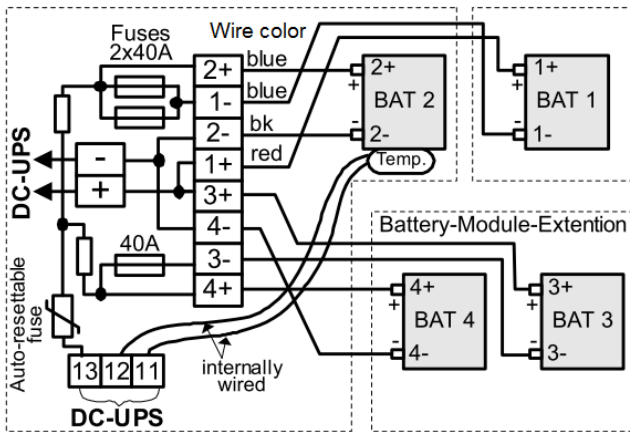
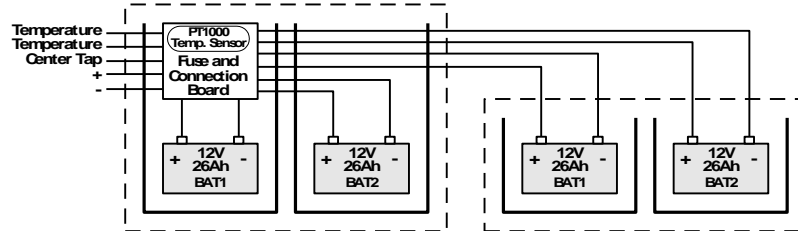


Wiring Scheme

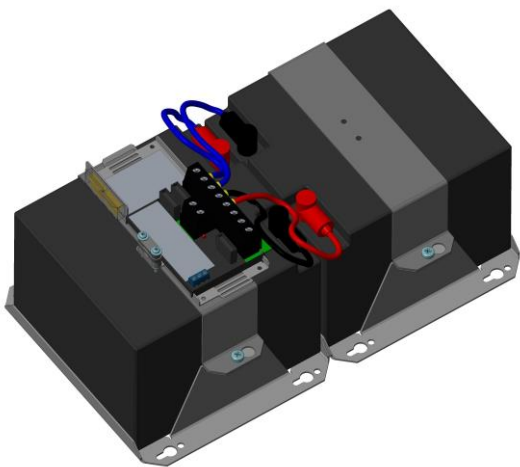
UZK24.262



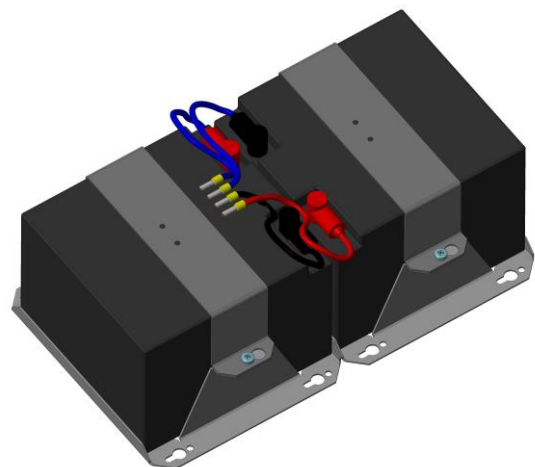
UZK24.262
with UZK24.262-E1



Fuse and Connection Board UZW24.100



UZK(O)24.262



UZK(O)24.262-E1

Actual wire length to connect to UZK24.262 is longer than shown