ZDSOP24 – IVO SYSTEM POWER SUPPLY



Certificate of constancy of performance 1438-CPR-1077
Certificate of admittance 5641/2025

FEATURES

- High efficiency: up to 90 %
- High-power rated output up to 3460 W
- Compact size
- Integral AD/DC converter with integral battery charger
- Multi direct 24 V DC output
- Modbus communication
- Maximum battery capacity: 2 × 230 Ah
- Over voltage, over current, short circuit and temperature protection

OVERVIEW

The ZDSOP24 power supply unit is designed to provide uninterrupted and stabilized 24 V DC power to IVO system components. It supports a modular configuration with power supply modules ranging from 500 W up to 3460 W.

The unit features independently protected outputs for up to eight amplifiers, one system controller (bridgeable with KG-ETH, KAS, and 16SG modules), and one auxiliary device. Housed in a standard 19" rack-mount enclosure, the ZDSOP24 operates from a 230 V AC mains supply via a single-phase, three-wire connection (phase, neutral, ground). In case of mains power failure, the system automatically switches to a 24 V DC battery backup, ensuring continuous operation of all connected devices.

The inbuilt charger provides charging and maintenance of the standby batteries in accordance with BS 5839-8 and the requirements of EN 54-4.

The ZDSOP24 supports maintenance-free Sealed Lead-Acid (SLA) batteries, including both AGM and gel types. Depending on the version, it can accommodate one or two battery strings, each with a capacity of up to 230 Ah, providing a maximum backup capacity of 460 Ah.

An advanced battery resistance monitoring function enables independent supervision of each battery string, ensuring optimal performance and compliance with both regulatory and project-specific requirements.

pAudio Technologies Sp. z o.o.
ul.Majowa 2,71-374Szczecin,Poland
Tel.: +48 91 311 38 75
paudio@paudio.pl, www.paudio.pl

TECHNICAL SPECIFICATION

GENERAL	
Power supply	230 V AC -15 % / +10 %
Total efficiency	> 87 %
Idle consumption	< 6 W
Standards	EN54, EN12101, CE
Operating temperature	-5 : +50 °C
Relative humidity	25 % - 90 %
Indicators	AC main, DC, fault, each output: DC status
Connectors	230 V AC, Outputs: 1x 24 V DC AUX, 1x 24 V DC controller, 8x 24 V DC amplifiers (with 20A fuze), EPS fault (230 V AC loss), PSU general fault, temperature sensor, RS485

OTHERS	
Output voltage	20 - 29 V DC

BATTERY	
Max. battery capacity	2x 230 Ah

SPECIFICATION PER VERSION	RATED OUTPUT POWER	BATTERY LINES	MECHANICAL
ZDSOP24-05	500 W	1	1U, 19”
ZDSOP24-1-1	1000 W	1	1U, 19”
ZDSOP24-1-2	1000 W	2	1U, 19”
ZDSOP24-2-1	2000 W	1	1U, 19”
ZDSOP24-2-2	2000 W	2	1U, 19”
ZDSOP24-3-2	3000 W	2	2U, 19”
ZDSOP24-4-2	3460 W	2	2U, 19”

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ul.Majowa 2,71-374Szczecin,Poland
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paudio@paudio.pl, www.paudio.pl