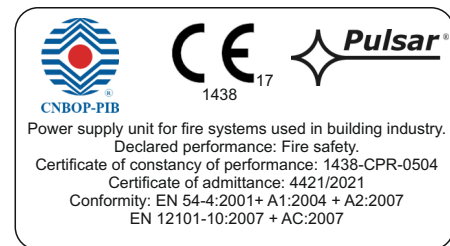


CODE: **DSOS24V** v.1.1/VI  
NAME: **Fireman's microphone power supply  
for the voice alarm systems 24V**

**EN\*\***



### PSU features:

- Compliant with the requirements of the EN 54-4:2001+ A1:2004 + A2:2007 and EN 12101-10:2007 + AC:2007 standards and pt. 12.2 of the Regulation of the Minister of Interior and Administration of the Republic of Poland of 20.06.2007
- Power supply for the call station of the DSO system, e.g. the PVA-15CST and two PVA-20CSE extensions by BOSCH
- 24 V DC Uninterruptible Power Supply
- Single battery power supply (7Ah /12V)
- Wide supply voltage range (176-264 V AC)
- Low ripple voltage
- Microprocessor-based automation system
- Measurement of the resistance of the battery circuit
- Automatic temperature compensation of the battery charging
- Battery test
- Two-phase battery charging
- The accelerated battery charging
- Battery electrical continuity control
- Battery voltage control
- Battery fuse status control
- Battery charge and maintenance control
- Deep discharge battery protection (UVP)
- Battery overload protection.
- Battery output protection against short-circuit and reverse polarity connection
- Output voltage control
- Acoustic indication of failure
- Technical inputs/outputs with galvanic isolation
- Technical outputs - relay type.
- ALARM – technical output of collective failure
- EPS – technical output of 230 V AC power failure indication
- PSU – technical output of power supply failure indication
- APS – technical output of battery failure indication
- LED Optical indication.
- Protection types:
  - SCP short-circuit protection
  - OLP overload protection
- Convection cooling.
- Warranty – 3 years from production date

### DESCRIPTION

The DSOS24V is designed for uninterruptible power supply of call stations (firefighter's microphone) used in VAS (Voice Alarm Systems) requiring stabilized voltage of 24 V DC (-5%/+5%).

In the case of mains power loss, the PSU immediately switches to battery power. The power supply unit is housed in a metal enclosure (color red RAL 3001) with space for a 7Ah / 12V battery. The power supply unit uses maintenance free, AGM or gel batteries (7Ah/12V).

SPECIFICATIONS	
Functional class EN 12101-10:2007	1
Supply voltage	176 ÷ 264 V AC
Current consumption	0,15A @230 V AC
Power supply frequency	50Hz
PSU power	10W
Rated voltage	24 V DC
Output current	200mA
The maximum resistance of the battery circuit	300m Ohm
Ripple voltage	45mV p-p max.
Current consumption by PSU systems during battery operation	I = 115mA
Battery charging current	0,4A
The coefficient of temperature compensation of the battery voltage	-20mV/ °C (-5°C ÷ 40°C)
Low battery voltage indication	U <sub>bat</sub> < 11,5V, during battery operation
Short-circuit protection SCP and overload protection OLP	F500mA melting fuse at the 24 V DC output (requires fuse replacement)
Battery circuit protection SCP and reverse polarity connection	T2A- F <sub>BAT</sub> melting fuse (failure requires fuse replacement)
Deep discharge battery protection (UVP)	U < 10V (± 1V) – disconnecting (+BAT) the battery
Technical outputs: - EPS FLT; output indicating AC power failure - APS FLT; output indicating battery failure - PSU FLT; output indicating PSU failure - ALARM; output indicating collective failure	- relay type: 0.5A@ 30 V DC / 50 V AC
Optical indication. - AC; LED indicating AC power status  - DC; LED indicating 24V DC power status at the PSU output - FAILURE; LED indicating failure	- green, normal status: permanently illuminated, failure: not lit - green, normal status: permanently illuminated, failure: not lit - yellow, normal status: not lit, failure: permanently illuminated
Fuses: - F <sub>AUX</sub> - F <sub>BAT</sub> - F <sub>MAIN</sub>	F500mA / 250V T2A / 250V T3,15A / 250V
Operating conditions:	I environmental class (EN12101-10 :2007), -5°C ÷ 40°C
Enclosure:	DC01 steel plate 1 mm, color red (RAL 3001)
Enclosure dimensions:	550 x 380 x 200 (WxHxD) [mm] (+/- 2)
Fitting battery:	7Ah/12V (SLA)
Net/gross weight:	9,8 / 10,5 [kg]
Certificates	Certificate of constancy of performance CNBOP-PIB No 1438-CPR-0504,
Deklarations, warranty:	Certificate of approval CNBOP-PIB No 4421/2021, CE, 3 years from production date
Notes:	Convection cooling.