

## Power supply PSU 24 V-1



### Features:

- 4 LEDs indication of the power supply's operation
- Push button to choose cold start and reset faults
- USB connector on the front panel
- Screw terminals M8 for battery connection
- Four standard outputs to power amplifiers
- Two outputs with increased current carrying capacity to power amplifiers
- Six additional outputs of uninterruptible voltage
- Standard blade fuses (car style) on all outputs
- Internal device to disconnect battery – low voltage disconnects device (LVDD)
- Terminals for remote indication (three contacts for each signal): general fault, battery fault and mains failure
- Connector for input of external fault signal (active state is when open, referenced to the common negative bus of the power supply)
- Socket for external temperature probe (included)
- IEC terminal for mains connection
- Internal fans, activated by the controller

### Part-No.: 581726

The PSU 24V-1 power supply is designed to work with the INTEVIO PA/VA System. It acts as a battery charger and control device for 24 VDC external back up batteries in accordance with EN 54-4+A1+A2 standards.

The front panel includes LED indicators, control push button and USB socket, allowing control and test of power supply operating parameters.

All connections are located at the rear of the unit, which has two configuration options: all 6 outputs providing the same current or 2 of the 6 with increased current-carrying capacity.

The power supply meets all requirements of the Regulation of the European Parliament and of the Council of Europe No. 305/2011 of 9 March 2011 [CPR]. It holds certificate of constancy of parameters CNBOP No. 1438-CPR-0496.

High power backup power supply for 19" rack  
High output current, up to 200 A @ 24 VDC  
Management of one battery circuit  
Max. capacity of batteries 270 Ah  
Battery circuits resistance tests  
Balancing voltage level of batteries in series  
Temperature compensation of bulk charging and floating voltage  
Advanced diagnostic and status indication  
Built-in DC power distribution panel and low voltage disconnect device LVDD  
Option to start system with only battery power, w/o mains source present – so called cold start  
Built-in gauge of battery circuit resistance  
UI characteristics of battery charging  
Ability to work in floating mode or with discontinuous battery charging  
Single phase power with PFC  
Microprocessor controlled  
Digital communication via USB connector  
Operation with various acid batteries

Rated voltage	230 V AC
Operating voltage	24 V DC
Ambient temperature	-5 °C ... 45 °C (forced by fans)
Type of protection	IP 20 (To comply with the standard EN 54-16 the power supplies have to be mounted in 19" rack cabinets of IP 30)
Weight	approx. 4,9 kg (netto)
Dimensions	W: 483 mm H: 43 mm D: 330 mm



Functions Of The Power Supply • Temperature dependence of floating voltage and charging voltage • Charging mode with current limitation depending on chosen battery capacity • Operation in charging modes: bulk, balancing and supplementary charging • Monitoring of low and high battery voltage • Monitoring battery circuits continuity as well as measurement of battery circuits resistance • Battery bank over-charge protection • Monitoring the output fuses • Monitoring operation of the charger • Measurement of internal temperature • Digital measurement of voltages, current and temperature • Optical and remote indication of faults • Option to accept and manage the external fault signal • Option to set up the initial capacity of cooperating battery by DIP switch on the back panel • Option to set up the level of maximum battery circuit resistance by DIP switch on the back panel