

...the broadest narrowband money can buy



Mains power supplies

MS2000/12 and **MS2000/24** are two types of mains power supplies which primarily serve for feeding all MORSE system components. Both types provide back-up of the output DC voltage from the connected battery.

Mains power supplies work as self-acting isolation transformers (SELV) with two levels of output voltage. The lower level serves for supplying connected equipment, the higher level is designed for charging the back-up battery. The design has been electrically and mechanically (metal case) adapted so that the power supplies can be used in demanding industrial applications. In conjunction with the battery MS2000 works as a UPS (Uninterruptible Power Supply).



Typical areas of use

- For **supplying MORSE system components**: all types of radio modems, GPRS modem and other accessories
- For **supplying control systems** in common switchboards with radio modems
- For separately supplying any equipment for **13.8 V**, or **24 V DC** with a consumption of up to **5 A**, or **3.5 A**

Benefits

- **Microprocessor** controlled
- Optimisation of charging and back-up
- **Prevents** completely **discharging the battery** by disconnecting it in time
- **Saves the life** of the battery
- **Protection** of primary and secondary side against **short-circuiting** and **over-voltage** when supplied from the mains or battery
- Assembly on a DIN rail or using 2×M3 screws

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Technical parameters

	MS2000/12	MS2000/24
Nominal supply current	0.5 A	0.5 A
Built-in safety fuse in the primary circuit	T4 A	T4 A
Nominal output voltage	13.8 V (± 0.3 V)	24 V (± 0.3 V)
Output voltage ripple at $I_{OUT} = 5$ A	max. 150 mV	max. 150 mV
Nominal output current	5 A	3.5 A
Maximum charging current according to setting of the internal switch: for the battery 2 Ah for the battery 6 Ah for the battery 12 Ah	0.7 Ah 1.5 Ah 2.5 Ah	0.7 Ah 1.5 Ah 2.5 Ah
Minimum voltage on battery (for disconnection)	10.8 V	10.8 V
MTBF (mean time between failures)	> 100,000	> 100,000
Range of operating temperatures	-25 to +55 °C	-25 to +55 °C
Dimensions	104 × 50 × 187 mm	104 × 50 × 186.5 mm
weight	0.8 kg	0.8 kg
Compliant with standard for		
electrical safety	CSN EN 60 950	
EMC (electromagnetic compatibility)	CSN EN 50 0811, CSN EN 55 022 class B, CSN EN 61 00062	