

## Power supply

### MS2000

**MS2000** is a switching-based **230 V AC power supply with back-up** from a DC voltage connected accumulator. It is manufactured in two versions: MS2000/12 (**13,8 V DC**) and MS2000/24 (**24 V DC**). MS2000 has been developed primarily as a power supply for all MORSE devices. MS2000 is designed for industrial use and is fully encased in a steel cover for installation into switchboards. With accumulator works as **UPS** (Uninterruptible Power Supply).

### General areas of use

- **Supply** for all **MORSE components**: MR400, MR300, MR160, MR900, MC100, MG100, MR25
- **Supply** for **Telemetry devices** in the same cabinet with radiomodems
- Independent power supply for any equipment requiring **13,8 or 24 V DC** with consumption of up to **5 or 3,5 A**

### Features

- Operated by a **microprocessor**
- Optimization of charging and back-up
- **Prevents** complete **discharge of accumulator** by disconnecting it
- **Saves lifetime** of the battery
- **Protects** the primary and secondary side against **overstrain**
- **Short circuit protection** for both battery and power operation
- DIN rail or 2 × M3 screws mounting



### Technical parameters

Type	MS2000/12	MS2000/24
Rated supply current	0,5 A	0,5 A
Built-in safety fuse in the primary circuit	T4 A	T4 A
Rated output voltage	13,8 V (± 0,3 V)	24V (± 0,3 V)
Output voltage ripple when I <sub>out</sub> = 5 A	max. 150 mV	max. 150 mV
Rated output current	5 A	3,5 A
Max. charging current according to the internal switch:		
for battery 2 Ah	0,7 A	0,7 A
for battery 6 Ah	1,5 A	1,5 A
for battery 12 Ah	2,5 A	2,0 A
Minimum accumulator voltage (for plug off)	10,8 V	10,8 V
MTBF (Mean Time Between Failures)	> 100 000 hours	> 100 000 hours
Supply voltage	230 V AC / 50 Hz, ±10 %	230 V AC / 50 Hz, ±10 %
Operating temperature range	-25 to +55 °C	-25 to +55 °C
Dimensions	104 × 50 × 186,5 mm	104 × 50 × 186,5 mm
Weight	0,8 kg	0,8 kg
<b>Standards complied</b>		
Electrical safety	CSN EN 60 950	
EMC (Electromagnetic Compatibility)	CSN EN 50 0811, CSN EN 55 022 class B, CSN EN 61 00062	