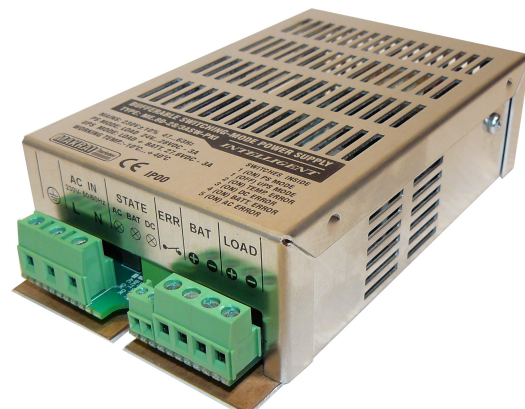


WARNING!

Touching of mains connector is dangerous after plug in this device. The device **MUST** be grounded to reduce risk of electrical shock. Ventilation should be insured for the device at installation.

1. Usage of the device

The device can be operated either in **UPS** or **PS** power supply mode. Selection of the operating mode is made by a DIP SWC inside. In **UPS** mode the output DC level is 27.6 VDC and cannot be adjusted. In **PS** mode the output level can be adjusted between 24 V – 27.6 VDC. The **STATE** LEDs show the actual operation. The device has **ERROR** output contact which breaks in case of error (See Table A). The type of errors has to be permitted by DIP SWC inside. Choose the appropriate one according to Table B. The device switches off **LOAD** output if short-circuit or overload occurs. In every 20 s the **LOAD** output is tested.



2. UPS buffered operating mode (default)

Remove the upper cover of the device by slightly pushing its lower parts. Choose the **UPS** operating mode by a DIP SWC. Connect the output **BAT** to the battery and output **LOAD** to the load. Plug the mains voltage to the input contact **AC IN 230 V 50/60 Hz**. The output voltage is 27.6 VDC at both contacts. In this operating mode the device tests the battery.

3. Operation of deep discharge

The load is switched off if battery voltage is below 21 VDC.
 The load is switched on if battery voltage is 25 VDC (battery is charged).

4. PS power supply mode

Choose the **PS** operating mode by a DIP SWC inside. Adjust the output voltage by potentiometer installed inside the device between 24 V – 27,6 VDC. Connect output **LOAD** to the load. Max loading current is 3 A. Plug the mains voltage to the input contact **AC IN 230 V 50/60 Hz**. In this operating mode the battery test and deep discharge function are not in operation.

Table A

LED lights		LED not light		Error contact delay
Mains OK:	AC	No power:	AC	20 s
LOAD output OK:	DC	No LOAD output:	DC	20 s
UPS mode with battery:	BAT	Deep discharge protection:	BAT	0 s
LED flashing				
UPS mode without battery:	BAT No battery			5 s
UPS mode with battery:	BAT Change battery			60 s test time

Table B

Specifications	Protections	DIP SWC settings
Input: 230 V $\pm 10\%$ 47 to 63 Hz 0.77 A Insulation class: I. Protection: IP 00 Rated power: 80 W Output voltage PS: 24 V to 27.6 VDC Output voltage UPS: 27.6 VDC Load current PS: 3 A Load current UPS: 2.5 A / 2.0 A Charging current UPS: 0.5 A / 1 A Recommended battery: 2 \times 12 V / 4.5 Ah / 7 Ah Error contact: max 30 VDC – 100 mA Max ambient temperature: -10 °C... + 40 °C Dimensions: W = 124 D = 78 H = 38 (mm) Weight: 0.26 kg	<u>AC input</u> Mains impulse overvoltage <u>DC output</u> Overloading (OLP) Short-circuit (SCP) Overheating (OHP) Overvoltage (OVP) Deep discharge (UVP) Reverse polarity (RCP)	1 – ON PS Mode OFF UPS Mode <u>Choosable error types</u> 2 – ON TEMP ERROR 3 – ON DC ERROR 4 – ON BATT ERROR 5 – ON AC ERROR 6 – OFF 0.5 A CHARGING ON 1 A CURRENT