

ME.140-14/10ASW-PKDI BUFFERABLE INTELLIGENT II. POWER SUPPLY WITH BATTERY

INSERTION OPTION USER'S MANUAL, 140W-13.8VDC

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

Battery is for illustration only

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 13.8 VDC and cannot be adjusted. In **PS** mode the output level can be adjusted between 12 V – 13.8 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)

Open the door of the device. 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 13.8 V 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 10.5 V.

The load is switched on if battery voltage is 12.5 V (battery is charged)

4. Charging time: 8 hours in case of 12V/7Ah battery.

5. The device operates as power supply in PS mode. There is no battery charging and diagnostics!

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 1.22 A Insulation class: I. Protection: IP 20 Rated power: 140 W Output voltage PS: 12 VDC to 13.8 VDC Output voltage UPS: 13.8 VDC Load current PS: 10 A Load current UPS: 9.2 A / 8.4 A Charging current UPS: 0.8 A / 1.6 A Space for battery: 12V/ 7 Ah Error contact: max 30 VDC – 100 mA Max ambient temperature: -10 °C...+ 40 °C Dimensions: W = 210 H = 260 D = 67+8 (mm) Weight: 1.38 kgs	<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 0.8 A CHARGING ON 1.6 A CURRENT