

**POWER SUPPLY**  
**TYPE PS10 AND PS20**  
**VER. 2.0**

**PRODUCT DESCRIPTION**

Power supply PS10 and PS20 deliver DC voltage at 13.8V nominal level. Both device consist of metal case with compartment for sealed lead-acid battery. PS10/20 employs internal current limiting, thermal shunt-down and short circuit protection which make it essentially indestructible. Battery is connected to output terminals only via ultra low-ohm MOS transistor (no resistor or diodes in series between battery and power supply output). Such circuit architecture guarantees optimum performance in AC failure and during excess current consumption as well as in dynamic change of load current. PS10/20 charge battery with constant current, this method of battery charging guaranties relatively quick and save charging process. The output voltage of PS10/20 may vary from approx. 12.0 up to 13.8V and depends on actual battery charging phase. When battery level drops below app. 10.0V level, internal circuit disconnect battery from load and thus protect it from total discharge and load equipment connected to PS from operation below 10V level which in many cases can lead to undefined system behavior. The return of AC supply reconnect battery and battery operation can be restored. PS10/20 deliver two separate output voltage terminals, every output is protected with separate 3.15A fuse. The battery is protected with 5A fuse which reduce maximum output current of battery, this fuse also protects circuit against battery reverse connection. The maximum output voltage is factory preset to 13.8V and should not be changed by user. PS10/20 are equipped with two LEDs, the red one signalize 220VAC supply where green signalize output voltage 12VDC. The output voltage is connected to two separate terminals, every terminal is protected with fuse (FS1 and FS2).

Note : The damage of output fuse is not signalized on 12 VDC LED.

**TECHNICAL SPECIFICATION**

PARAMETR	PS10	PS20	Notice
Nominal AC supply voltage	220 VAC -10%..+6%	220 VAC -10%..+6%	RMS value
Nominal frequency	50..60 Hz	50..60 Hz	
Nominal output voltage	13.8 VDC	13.8 VDC	Output voltage may vary from app. 12.0 up to 13.8V depending on actual battery charging phase.
Max. output current (without battery)	1.0A	2.0A	Maximum output current is guaranteed for up to 35 C ambient temperature and for whole range of AC supply.
Momentary max. output current with battery	6A	6A	Not bigger then 3A on every output terminal
Initial battery charging current	0.3A	0.3A	
Battery cut off voltage	10.0V	10.0V	
Battery compartment	6.5Ah/12V	6.5Ah/12V	or 7Ah/12V
Dimensions	234x165x80	234x165x80	
Weight	2,0 kg	2,2 kg	Without battery

168.0

