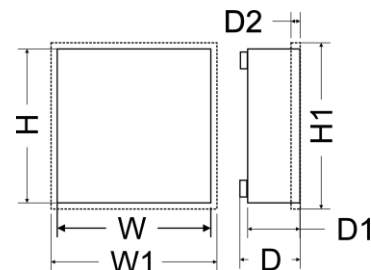


CODE: PSBE10A12 v.1.0  
TYPE: PSU-B-13,8V/S-10A/1/EL-TR-65Ah/MC

EN



## DESCRIPTION

The buffer power-supply is used for uninterrupted supply of devices requiring stabilized voltage of 12 V DC (+/-15%). The power-supply provides voltage within the following range:  $U = 11.0 \text{ V} \div 13.8 \text{ V}$  DC of total current efficiency equal to  $I = 10 \text{ A}$ . In case of power voltage decay, prompt switching to battery supply occurs. The power-supply has the following protections: short-circuit (SCP), overload (OLP), overheat (OHP) over-voltage (OVP), surge protection. It is adapted for cooperation with the sealed lead-acid battery (SLA). The power supply controls automatically the charging and maintenance process of the battery, what is more it is equipped with the BAT output protections: short-circuit and reverse polarity protection. The power-supply is equipped with excessive discharge protection (UVP, dip switch J: ON/OFF). It is equipped with the optical signaling indicating the operation mode (AC power-supply, LB charging, DC output). The power-supply is also equipped with two technical outputs (OC): BS used for serving remote control of the AC power supply status and AW used for informing about voltage regulator operation status (activation of SCP, OVP, UVP, DC/DC converter failure). The power-supply has got a metal casing with a space for 65Ah/12V battery. The casing features a microswitch indicating door (front) opening and disconnection with the surface.

## TECHNICAL DATA

<b>Casing:</b>	metal, IP20, color RAL9003,
<b>Dimensions:</b>	W=400, H=422, D=182, W1=405, H1=427, D1=178mm, D2=8 [mm, +/-2]
<b>Net/gross weight:</b>	10.95 / 11.80 [kg]
<b>Space for battery:</b>	65Ah/12V Sealed Lead-Acid (SLA)
<b>Antisabotage protection:</b>	2x microswitch: opening and ripping off the casing, 0,5A@50V/DC max. NC
<b>Closing:</b>	screwed: cheese screw x 2 (lock in option)
<b>Remarks:</b>	distance from wall (ground) - 8mm
<b>Power supply:</b>	230 V AC (-15%/+10%), 50Hz, 1,1A max.
<b>Transformer:</b>	TR 300VA/33V
<b>Power of the power supply:</b>	P=138W max.
<b>Type of the power supply:</b>	A (EPS- External Power Source)
<b>Output voltage:</b>	11 V ÷ 13.8 V DC buf. op. (10 V ÷ 13.8 V DC bat. op. ), 50 mV p-p
<b>Output current:</b>	10 A max.
<b>Number of power supply outputs:</b>	1x 10 A / 3x 2.5 A
<b>Accumulator charging current:</b>	0.7 A / 2.1 A / 3.6 A / 4.8 A
<b>Current consumption by the PSU:</b>	20 mA @ $I_{out}=0A$ (max.) bat. op.
<b>Short-circuit protection (SCP):</b>	200% ÷ 250% of the PSU power, hiccup operation: $I_{out}=13 \text{ A} / 200 \text{ ms}$
<b>Overload protection (OLP):</b>	110% ÷ 150% of the PSU power
<b>Overvoltage protection (OVP):</b>	yes
<b>Surge protection:</b>	yes
<b>Battery protection (UVP):</b>	yes
<b>Technical output BS (AC failure):</b>	AC ok: hi-Z , AC failure: 0V, delay time ca. 30s.
<b>Technical output AW (failure):</b>	normal operation: 0V , failure: hi-Z, delay time max. 30s.
<b>Technical outputs type:</b>	typ OC, 50 mA / 30 V DC max
<b>Acoustic signalization of the operation:</b>	no
<b>Optical signalization of the operation:</b>	LED's: AC supply status (LB charging, OVP on power supply unit PCB)
<b>Operation condition:</b>	2nd environmental class -10°C ÷ 40°C
<b>Certificates, declarations:</b>	CE, RoHS
<b>Remarks:</b>	PSU cooling: convection, CONNECTIONS; supply: $\Phi 0.63\text{-}2.50$ (AWG 22-10), I/O PCB : $\Phi 0.41\text{+}1.63$ (AWG 26-14), BAT battery outputs: 6.3 F-2.5/30 cm, TAMPER output: conductors, 30 cm