Switching, buffer power supply units, 13.8 V/DC without automatic operation controly



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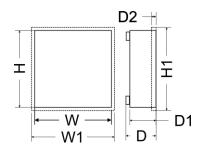
CODE: PSBE10A12 v.1.0

TYPE: PSU-B-13,8V/S-10A/1/EL-TR-65Ah/MC









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 V + 13.8 V DC of total current efficiency equal to I=10 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

| Dimensions: W=400, H=422, D=182, W1=405, H1=427, D1=178mm, D2=8 [mm, +/-2] Net/gross weight: 10.95 / 11.80 [kg] Space for battery: 65Ah/12V Sealed Lead-Acid (SLA) Antisabotage protection: 2x microswitch: opening and ripping off the casing, 0,5A@50V/DC max. NC Closing: screwed: cheese screw x 2 (lock in option) Remarks: distance from wall (ground) - 8mm Power supply: 230 V AC (-15%/+10%), 50Hz, 1,1A max. Transformer: TR 300VA/33V Person of the power supply: P=138W max. Type of the power supply: A (EPS- External Power Source) Output voltage: 11 V + 13.8 V DC buf. op. (10 V + 13.8 V DC bat. op.), 50 mV p-p Output current: 10 A max. Number of power supply outputs: 1x 10 A / 3x 2.5 A Accumulator charging current: 0.7 A / 2.1 A / 3.6 A / 4.8 A Current consumption by the PSU: 20 mA@ lour=0A (max.) bat. op. Short-circuit protection (SCP): 200% + 250% of the PSU power, hiccup operation: lour=13 A / 200 ms Overvoltage protection (OVP): yes Surge protection: yes Battery protection (UVP): yes Battery protection (UVP): yes Battery protection (UVP): yes Technical output BS (AC failure): normal operation: 0v, failure: hi-Z, delay time max. 30s. Technical output AW (failure): normal operation: 0v Depration condition: LEDs: AC supply status (LB charging, OVP on power supply unit PCB) Operation condition: 2nd environmental class -10°C + 40°C Certyficates, declarations: CE, ROHS | IECHNICAL DATA | |
|--|---|---|
| Net/gross weight: Space for battery: 65Ah/12V Sealed Lead-Acid (SLA) Antisabotage protection: 2x microswitch: opening and ripping off the casing, 0,5A@50V/DC max. NC Closing: screwed: cheese screw x 2 (lock in option) distance from wall (ground) - 8mm Power supply: 230 V AC (-15%/+10%), 50Hz, 1,1A max. Transformer: TR 300VA/33V Permer supply: A (EPS- External Power Source) Output voltage: 11 V + 13.8 V DC buf. op. (10 V + 13.8 V DC bat. op.), 50 mV p-p Output current: 10 A max. Number of power supply outputs: 1x 10 A/3x 2.5 A Accumulator charging current: 0.7 A / 2.1 A / 3.6 A / 4.8 A Current consumption by the PSU: 20 mA@ lour=0A (max.) bat. op. Short-circuit protection (SCP): 200% + 250% of the PSU power, hiccup operation: lour=13 A / 200 ms Overload protection (OLP): yes Battery protection: yes Battery protection (UVP): yes Technical output BS (AC failure): AC ok: hi-Z , AC failure: 0V, delay time ca. 30s. Inormal operation: 0V, failure: hi-Z, delay time max. 30s. Technical output BS (AC failure): normal operation: 0V, failure: hi-Z, delay time max. 30s. Technical output AW (failure): normal operation: 0V, failure: hi-Z, delay time max. 30s. Technical output AW (failure): normal operation: 0V, failure: hi-Z, delay time max. 30s. Technical output AW (failure): normal operation: 0V, failure: hi-Z, delay time max. 30s. Technical output AW (failure): normal operation: 0V, failure: hi-Z, delay time max. 30s. Technical output AW (failure): normal operation: 0V, failure: hi-Z, delay time max. 30s. Technical output BCP: AC os: hi-Z , AC failure: OV, delay time ca. 30s. normal operation: 0V, failure: hi-Z, delay time max. 30s. Technical output BCP: AC os: hi-Z , AC failure: OV, delay time ca. 30s. Technical output BCP: AC os: hi-Z , AC failure: OV, delay time ca. 30s. Technical output BCP: AC os: hi-Z , AC failure: OV, delay time ca. 30s. Technical output BCP: AC os: hi-Z , AC failure: OV, delay time ca. 30s. Technical output BCP: AC os: hi-Z , AC failure: OV, delay time ca. 30s. Technical output BCP: AC os: hi-Z , | Casing: | metal, IP20, color RAL9003, |
| Space for battery: 65Ah/12V Sealed Lead-Acid (SLA) Antisabotage protection: 2x microswitch: opening and ripping off the casing, 0,5A@50V/DC max. NC Closing: screwed: cheese screw x 2 (lock in option) Remarks: distance from wall (ground) - 8mm Power supply: 230 V AC (-15%/+10%), 50Hz, 1,1A max. Transformer: TR 300VA/33V Power of the power supply: P=138W max. Type of the power supply: A (EPS- External Power Source) Output voltage: 11 V + 13.8 V DC buf. op. (10 V + 13.8 V DC bat. op.), 50 mV p-p Output current: 10 A max. Number of power supply outputs: 11 X 10 A / 3x 2.5 A Accumulator charging current: 0.7 A / 2.1 A / 3.6 A / 4.8 A Current consumption by the PSU: 20 mA @ lou=0A (max.) bat. op. Diverload protection (OLP): 110% + 150% of the PSU power, hiccup operation: lou=13 A / 200 ms Diverload protection (OVP): yes Surge protection: yes Battery protection (UVP): yes Fechnical output BS (AC failure): AC ok: hi-Z , AC failure: OV, failure: hi-Z, delay time max. 30s. Technical output AW (failure): normal operation: OV , failure: hi-Z, delay time max. 30s. Technical output AW (failure): normal operation: OV , failure: hi-Z, delay time max. 30s. Technical output Stype: 4x Cost in Z , AC failure in CONNECTIONS: supply unit PCB) Diversion condition: Certyficates, declarations: CE, ROHS Remarks: PSU cooling: convection, CONNECTIONS: supply: Φ0.63-2.50 (AWG 22-10), I/O PCB: Φ0.41+1.63 (AWG 26-14), BAT battery | Dimensions: | W=400, H=422, D=182, W1=405, H1=427, D1=178mm, D2=8 [mm, +/-2] |
| Antisabotage protection: 2x microswitch: opening and ripping off the casing, 0,5A@50V/DC max. NC closing: screwed: cheese screw x 2 (lock in option) distance from wall (ground) - 8mm Power supply: 230 V AC (-15%/+10%), 50Hz, 1,1A max. Transformer: TR 300VA/33V Power of the power supply: P=138W max. Type of the power supply: A (EPS- External Power Source) Output voltage: 11 V + 13.8 V DC buf. op. (10 V + 13.8 V DC bat. op.), 50 mV p-p Output current: 10 A max. Number of power supply outputs: 1x 10 A / 3x 2.5 A Accumulator charging current: 0.7 A / 2.1 A / 3.6 A / 4.8 A Current consumption by the PSU: 20 mA@ lour=0A (max.) bat. op. Short-circuit protection (GCP): 200% + 250% of the PSU power, hiccup operation: lour=13 A / 200 ms Overload protection (OLP): 110% + 150% of the PSU power Surge protection (UVP): yes Sattery protection (UVP): yes Technical output BS (AC failure): AC ok: hi-Z , AC failure: 0V, delay time ca. 30s. Technical output AW (failure): normal operation: 0V , failure: hi-Z, delay time max. 30s. Technical output Stype: yp OC, 50 mA / 30 V DC max Accoustic signalization of the operation: Deptical signalization of the operation: Deptical signalization of the operation: CET, ROHS Remarks: PSU cooling: convection, CONNECTIONS; supply: Φ0.63-2.50 (AWG 22-10), I/O PCB: Φ0.41+1.63 (AWG 26-14), BAT battery | Net/gross weight: | 10.95 / 11.80 [kg] |
| Closing: screwed: cheese screw x 2 (lock in option) Remarks: distance from wall (ground) - 8mm Power supply: 230 V AC (-15%/+10%), 50Hz, 1,1A max. Transformer: TR 300VA/33V Power of the power supply: P=138W max. Type of the power supply: A (EPS- External Power Source) Output voltage: 11 V + 13.8 V DC buf. op. (10 V + 13.8 V DC bat. op.), 50 mV p-p Output current: 10 A max. Number of power supply outputs: 1x 10 A/ 3x 2.5 A Accumulator charging current: 0.7 A / 2.1 A / 3.6 A / 4.8 A Current consumption by the PSU: 20 mA @ lour=0A (max.) bat. op. Short-circuit protection (SCP): 200% ÷ 250% of the PSU power. hiccup operation: lour=13 A / 200 ms Overload protection (OUP): yes Surge protection: yes Battery protection (UVP): yes Battery protection (UVP): yes Battery protection (UVP): yes Technical output BS (AC failure): AC ok: hi-Z, AC failure: 0V, delay time ca. 30s. Technical output BS (AC failure): normal operation: 0V, failure: hi-Z, delay time max. 30s. Technical output BS (AC failure): normal operation: 0V Optical signalization of the operation: no Optical signalization of the operation: LED's: AC supply status (LB charging, OVP on power supply unit PCB) Operation condition: CE, ROHS Remarks: PSU cooling: convection, CONNECTIONS; supply: Φ0.63-2.50 (AWG 22-10), I/O PCB: Φ0.41+1.63 (AWG 26-14), BAT battery | Space for battery: | 65Ah/12V Sealed Lead-Acid (SLA) |
| Remarks: distance from wall (ground) - 8mm 230 V AC (-15%/+10%), 50Hz, 1,1A max. Transformer: TR 300VA/33V Power of the power supply: P=138W max. Type of the power supply: A (EPS- External Power Source) Output voltage: 11 V + 13.8 V DC buf. op. (10 V + 13.8 V DC bat. op.), 50 mV p-p Output current: 10 A max. Number of power supply outputs: 1x 10 A / 3x 2.5 A Accumulator charging current: 0.7 A / 2.1 A / 3.6 A / 4.8 A Current consumption by the PSU: 20 mA @ lour=0A (max.) bat. op. Short-circuit protection (SCP): 200% + 250% of the PSU power, hiccup operation: lour=13 A / 200 ms Overload protection (OLP): 110% + 150% of the PSU power Overvoltage protection (UVP): yes Battery protection (UVP): yes Battery protection (UVP): yes Technical output BS (AC failure): AC ok: hi-Z , AC failure: 0V, delay time ca. 30s. Technical output AW (failure): normal operation: 0V , failure: hi-Z, delay time max. 30s. Technical output AW (failure): normal operation: 0V, failure: hi-Z, delay time max. 30s. Technical output stype: 4Acoustic signalization of the operation: Diperation condition: Certyficates, declarations: CE, RoHS Remarks: PSU cooling: convection, CONNECTIONS; supply: Φ0.63-2.50 (AWG 22-10), I/O PCB: Φ0.41+1.63 (AWG 26-14), BAT battery | Antisabotage protection: | 2x microswitch: opening and ripping off the casing, 0,5A@50V/DC max. NC |
| Power supply: 130 V AC (-15%/+10%), 50Hz, 1,1A max. Transformer: TR 300VA/33V Power of the power supply: P=138W max. Type of the power supply: 11 V + 13.8 V DC buf. op. (10 V + 13.8 V DC bat. op.), 50 mV p-p Output voltage: 11 V + 13.8 V DC buf. op. (10 V + 13.8 V DC bat. op.), 50 mV p-p Output current: 10 A max. Number of power supply outputs: 1x 10 A / 3x 2.5 A Accumulator charging current: 0.7 A / 2.1 A / 3.6 A / 4.8 A Current consumption by the PSU: 20 mA @ lour=0A (max.) bat. op. Short-circuit protection (SCP): 200% + 250% of the PSU power, hiccup operation: lour=13 A / 200 ms Overvoltage protection (OLP): 110% + 150% of the PSU power Overvoltage protection (OVP): yes Surge protection: yes Battery protection (UVP): yes Technical output BS (AC failure): AC ok: hi-Z , AC failure: OV, delay time ca. 30s. Technical output BS (AC failure): normal operation: OV , failure: hi-Z, delay time max. 30s. Technical output AW (failure): normal operation: OV , failure: hi-Z, delay time max. 30s. Technical outputs type: Acoustic signalization of the operation: Deptical signalization of the operation: Deptical signalization of the operation: CETyficates, declarations: CE, RoHS PSU cooling: convection, CONNECTIONS; supply: Φ0.63-2.50 (AWG 22-10), I/O PCB : Φ0.41+1.63 (AWG 26-14), BAT battery | Closing: | screwed: cheese screw x 2 (lock in option) |
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| Technical output AW (failure): normal operation: 0V , failure: hi-Z, delay time max. 30s. typ OC, 50 mA / 30 V DC max Acoustic signalization of the operation: no Optical signalization of the operation: LED's: AC supply status (LB charging, OVP on power supply unit PCB) Operation condition: 2nd environmental class -10°C ÷ 40°C Certyficates, declarations: CE, RoHS Remarks: PSU cooling: convection, CONNECTIONS; supply: Φ0.63-2.50 (AWG 22-10), I/O PCB : Φ0.41÷1.63 (AWG 26-14), BAT battery | Battery protection (UVP): | yes |
| Technical outputs type: typ OC, 50 mA / 30 V DC max Acoustic signalization of the operation: no Optical signalization of the operation: LED's: AC supply status (LB charging, OVP on power supply unit PCB) Operation condition: 2nd environmental class -10°C ÷ 40°C Certyficates, declarations: CE, RoHS Remarks: PSU cooling: convection, CONNECTIONS; supply: Φ0.63-2.50 (AWG 22-10), I/O PCB: Φ0.41÷1.63 (AWG 26-14), BAT battery | Technical output BS (AC failure): | AC ok: hi-Z , AC failure: 0V, delay time ca. 30s. |
| Acoustic signalization of the operation: Optical signalization of the operation: Department of the operation: Department of the operation: LED's: AC supply status (LB charging, OVP on power supply unit PCB) 2nd environmental class -10°C ÷ 40°C Certyficates, declarations: CE, RoHS Remarks: PSU cooling: convection, CONNECTIONS; supply: Φ0.63-2.50 (AWG 22-10), I/O PCB: Φ0.41÷1.63 (AWG 26-14), BAT battery | Technical output AW (failure): | |
| Optical signalization of the operation: LED's: AC supply status (LB charging, OVP on power supply unit PCB) Operation condition: 2nd environmental class -10°C ÷ 40°C Certyficates, declarations: CE, RoHS Remarks: PSU cooling: convection, CONNECTIONS; supply: Φ0.63-2.50 (AWG 22-10), I/O PCB : Φ0.41÷1.63 (AWG 26-14), BAT battery | Technical outputs type: | typ OC, 50 mA / 30 V DC max |
| Operation condition: 2nd environmental class -10°C ÷ 40°C Certyficates, declarations: CE, RoHS Remarks: PSU cooling: convection, CONNECTIONS; supply: Φ0.63-2.50 (AWG 22-10), I/O PCB : Φ0.41÷1.63 (AWG 26-14), BAT battery | • | no |
| Certyficates, declarations: CE, RoHS PSU cooling: convection, CONNECTIONS; supply: Φ0.63-2.50 (AWG 22-10), I/O PCB : Φ0.41÷1.63 (AWG 26-14), BAT battery | Optical signalization of the operation: | |
| Remarks: PSU cooling: convection, CONNECTIONS; supply: Φ 0.63-2.50 (AWG 22-10), I/O PCB: Φ 0.41÷1.63 (AWG 26-14), BAT battery | Operation condition: | |
| (AWG 22-10), I/O PCB : Φ0.41÷1.63 (AWG 26-14), BAT battery | Certyficates, declarations: | - , |
| | Remarks: | (AWG 22-10), I/O PCB : Φ0.41÷1.63 (AWG 26-14), BAT battery |