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## Characteristics

- PSB-10: switching stabilized power supplies with fixed output voltage, for mounting into an installation box

PSB-10-12: stabilized power supply $12 \mathrm{~V} / 10 \mathrm{~W}$
PSB-10-24: stabilized power supply $24 \mathrm{~V} / 10 \mathrm{~W}$

- PS-10: switching stabilized power supplies with fixed output voltage, version 1-MODULE PS-10-12: stabilized power supply $12 \mathrm{~V} / 10 \mathrm{~W}$ PS-10-24: stabilized power supply $24 \mathrm{~V} / 10 \mathrm{~W}$
- PS-30: switching stabilized power supplies, version 3-MODULE

PS-30-12: stabilized power supply with fixed output voltage $12 \mathrm{~V} / 30 \mathrm{~W}$ PS-30-24: stabilized power supply with fixed output voltage $24 \mathrm{~V} / 30 \mathrm{~W}$ PS-30-R: stabilized regulated power supply 12-24 V / 30 W

- PS-100: stabilized power supply with fixed output voltage, version 6-MODULE PS-100-12: stabilized power supply $12 \mathrm{~V} / 100 \mathrm{~W}$ PS-100-24: stabilized power supply $24 \mathrm{~V} / 100 \mathrm{~W}$
- output current is limited by electronic fuse, in case maximal current is exceeded, the device switches off and after a shot time interval it again switches on
- indication of output voltage by green LED on front panel (except PSB-10)
- temperature protection - if temperature is exceeded, the device switches off and after cooled down, it switches on again


## Description



Connection


PSB-10-12 PSB-10-24 PS-10-12 $\quad$ PS-10-24 $\quad$ PS-30-12 $\quad$ PS-30-24 $\quad$ PS-30-R $\quad$ PS-100-12 $\quad$ PS-100-24

## Input

| Voltage range: | $\mathrm{AC} 110-250 \mathrm{~V} / 50-60 \mathrm{~Hz}$ | $\mathrm{AC} 184-250 \mathrm{~V} / 50-60 \mathrm{~Hz}$ | $\mathrm{AC} 100-250 \mathrm{~V} / 50-60 \mathrm{~Hz}$ |  | $\mathrm{AC} 100-250 \mathrm{~V} / 50-60 \mathrm{~Hz}$ |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Burden without load (max.): | $3 \mathrm{VA} / 0.5 \mathrm{~W}$ | $5 \mathrm{VA} / 2 \mathrm{~W}$ | $9 \mathrm{VA} / 1 \mathrm{~W}$ | $10 \mathrm{VA} / 1.5 \mathrm{~W}$ | $10 \mathrm{VA} / 1.7 \mathrm{~W}$ |
| Burden with full load (max.): | $26 \mathrm{VA} / 13 \mathrm{~W}$ | x | $25 \mathrm{VA} / 13 \mathrm{~W}$ | $70 \mathrm{VA} / 37 \mathrm{~W}$ |  |
| frotection: | fuse T1A | fuse 72 A |  |  | $19 \mathrm{VA} / 2 \mathrm{~W}$ |

## Output

| Output voltage DC / max. current: | $12 \mathrm{~V} / 0.84 \mathrm{~A}$ | $24 \mathrm{~V} / 0.42 \mathrm{~A}$ | $12.2 \mathrm{~V} / 0.84 \mathrm{~A}$ | 24.2 V / 0.42 A | 12.2 V/2.5 A | 24.2 V / 1.25 A | $\begin{gathered} 12.2 \mathrm{~V} / 2.5 \mathrm{~A} \\ 24.2 \mathrm{~V} / 1.25 \mathrm{~A} \end{gathered}$ | 12.2 V/8.4 A | 24.2 V/4.2 A |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tolerance of output voltage: | $\pm 2 \%$ |  | $\pm 2$ \% |  | $\pm 2$ \% |  | $\pm 3 \%$ | $\pm 2$ \% |  |
| Output indication: | x |  | green LED |  |  |  |  |  |  |
| Wave of off-load output voltage: | 40 mV |  | 80 mV |  | 30 mV |  | 40 mV | 1 V |  |
| Wave of output voltage with max load: | 380 mV |  | 20 mV |  | 80 mV |  | 500 mV | 40 mV |  |
| Time delay after connection: | max. 1s |  | max. 1s |  | max. 5s |  | max. 1s | max. 3 s |  |
| Time delay after over-load: | max. 1s |  | max. 1s |  | max. 1s |  |  | max. 0.5 s |  |
| Efficiency: | > 75 \% |  | > 75 \% |  | > 82 \% |  | > 81 \% | > 82 \% |  |
| Electronic fuse: | electronic protections short-circuit, over load, over voltage (from $120 \%$ of rated output) |  |  |  |  |  |  |  |  |

## Other information

| Working humidity: | $20 . .90$ \% RH |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Operating temperature: | $-20 . .40^{\circ} \mathrm{C}$ |  |  |  |  |  |
| Storage temperature: | $-40 . .85^{\circ} \mathrm{C}$ | $-40 . .85^{\circ} \mathrm{C}$ | $-25 . .70^{\circ} \mathrm{C}$ |  |  | $-40 . .85^{\circ} \mathrm{C}$ |
| Electrical strength input-output: | 4 kV |  |  |  |  |  |
| Protection degree: | IP30 | IP40 from front panel / IP20 terminals |  |  |  |  |
| Overvoltage category: | II. |  |  |  |  |  |
| Polutioon degree: | 2 |  |  |  |  |  |
| Max. cable size ( $\mathrm{mm}^{2}$ ): | x | solid wire max. $1 \times 2.5$, max. $2 \times 1.5$ / with sleeve max. $1 \times 1.5$ (AWG 12) |  |  |  |  |
| Connection wires (cross-section / lenght): | solid wire $\mathrm{CY}, 4 \times 0.75 \mathrm{~mm}^{2}$ <br> (AWG 18) / 90 mm (3.5") | x |  |  |  |  |
| Dimensions: | $48 \times 48 \times 21 \mathrm{~mm}\left(1.9 \times 1.9 \times 0.8{ }^{\prime \prime}\right)$ | $90 \times 17.6 \times 64 \mathrm{~mm}\left(3.5 \times 0.7 \times 2.5^{\prime \prime}\right)$ | $90 \times$ | $65 \mathrm{~mm}(3.5 \times 2$ | 2.6") | $90 \times 105 \times 65 \mathrm{~mm}\left(3.5 \times 4.1 \times 2.6{ }^{\prime \prime}\right)$ |
| Weight: | $70 \mathrm{~g} \mathrm{(2.5} \mathrm{oz)}$ | 62 g (2.1 oz.) | 155 g (5.4 oz.) | 157 g (5.5 oz.) | 157 g (5.5 oz.) | 367 g (12.9 oz.) |
| Standards: | EN 61204-1, EN 61204-3, EN 61204-7 |  |  |  |  |  |

## Warning

Device is constructed for connection for 1-phase main alternating -current voltage and must be installed according to norms valid in existing state. Connection according to the details in this direction. Installation, connection, setting and servicing should be installed by qualified electrician staff only, who learn this instruction and functions of device. For right device protection should be fronted-end certain element. Before starting installation must be main switch in position "SWITCH OFF" and device should be out of voltage. Don't install device to suppliers surcharge electro-magnetic interference. By right installation of device is provide good air circulate to don't pass maximal operating temperature, in case of higher ambient temperature and permanent working. For installation and setting use screw-driver cca 2 mm . The device is full-electronic - installation should be effected according to this. Function without problems is too dependent on previous type of transportation, storing and manipulation. In case of any vestige of destruction, deformation, non-function or missing part, don't install and made claim to seller. Product may be, after passing operating time, disassemled, recycled or puted on protected tip.

