ELTEK VALERE
always on

DC/DC CONVERTER
PSC303 LV

In: 18 - 75VDC

Out: 12VDC (240W)

KEY FEATURES

- **1/6 x 19“, 3U**
- **Wide input voltage range**
- **Input overvoltage protection**
- **“Hot plug-in“ design with backplane connection**
- **High power density**
- **CAN-Bus interface**
- **Integrated output decoupling**
- **Convection cooling**

PRODUCT DESCRIPTION

Power supply modules of series PSC 303 are compact DC/DC converters with a high power density. The DC/DC converter can be used in all DC applications with or without battery.

Due to the modular concept and a high scalability the user is able to equip the power supply with additional modules according to his actual power profile. The units are very user friendly and can be swapped and upgraded during operation.

The modules get their operation parameters via the system wide CAN communication bus. After a successful login a central monitoring unit controls and monitors the modules. In case of CAN-Bus interruption the modules operate continuously with internal default values. The power rating of the unit is 240W in convection cooling mode.
Up to 6 modules can be integrated in a 19” sub rack with 4U.
In systems with a high packing rate and limited vertical airflow we recommend to use a fan rack for cooling.

APPLICATIONS

DC power supply facilities in all areas of industry, power generation and power distribution.

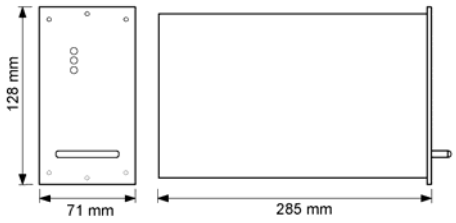
TECHNICAL DATA

Type	PSC303-LV/12-20
Article code	201-003-437.00
Input voltage range	18-75VDC
Nominal input current	11.3A@24VDC ; 5.6A@48VDC; 4.5A@60VDC
Input frequency	DC
Efficiency	≥ 89%
Internal input fusing	40A
Nominal output voltage	12VDC
Nominal output current	20ADC
Nominal output power	240W
Output characteristic curve	IV characteristic according to DIN41772/DIN41773; power limited
Voltage ripple	≤ 20mVpp
Dynamic accuracy of the output voltage	<3% Vnom at load changes between 10%-90%-10% Inom; transient time ≤ 1.5ms
Short circuit protection	Continuous short circuit proof; 1x Inom
Parallel operation	Yes; current distribution ≤ 10% Inom
Internal decoupling at the output	Yes; active, low-loss decoupling circuit in the negative output line
Internal output fuse	40A
LED signalling	Operation (green), Vo OK (green), Alarm (red)
Isolated signalling contacts	"General fault"; relay contact
Communications interface	CAN-Bus, proprietary protocol
Ambient temperature	Operation: -20°C to +55°C, storage: -40°C to +85°C
Cooling	Convection cooling (forced cooling recommended)
Climatic conditions	according to IEC 721-3-3 class 3K3/3Z1/3B1/3C2/3S2/3M2
Max. installation altitude	≤ 1500m
Audible noise	<30dBA
Type of construction	1/6 x 19", 3U
Dimensions (W/H/D)	71/128/285mm
Weight	approx. 2.2kg
Type of enclosure / Protection class	IP20 (front panel) / 1
Colour (front panel)	RAL 7035, black imprint
CE conformity	yes
Compliance to safety standards	EN60950-1; VDE0100 T410; VDE0110; EN50178; EN60146
Compliance to EMC standards	EN55011/22 class "B"; EN61000-4 T2-5
Connections	DC input, DC output and signalization: DIN41612-M-connector

OPTIONS

Article code / Designation	View
202-305-607.00 Assembly set 19" sub rack 4U incl. backplane for 6pcs. PSC303 (single DC input/output connection for each module)	
102-308-FR1.LV02 (Fan rack; recommended)	

DIMENSIONS



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