



DC/DC CONVERTER

PSC305 LV

In: 18 - 75V_{DC}

Out: 24/48/60V_{DC} (480W)

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**
- **Wide range of available output voltages**
- **Convection cooling**

PRODUCT DESCRIPTION

Power supply modules of series PSC 305 are compact DC/DC converter 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 devices get their operation parameters via the system wide CAN communication bus. After a successful login a central monitoring unit controls and monitors the devices. In case of CAN-Bus interruption the modules operate continuously with internal default values. The power rating of the unit is 480W 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.



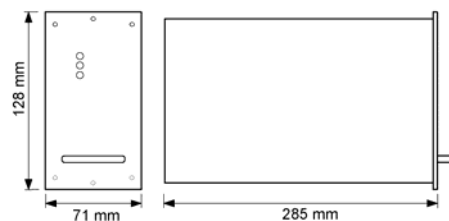
TECHNICAL DATA

Type	PSC305-LV/24-20	PSC305-LV/48-10	PSC305-LV/60-8
Article code	201-005-447.00	201-005-457.00	201-005-467.00
Input voltage range	18-75VDC		
Nominal input current	22.5A@24VDC ; 11.3A@48VDC; 9.0A@60VDC		
Input frequency	DC		
Efficiency	≥ 89%		
Internal input fusing	40A		
Nominal output voltage	24VDC	48VDC	60VDC
Nominal output current	20ADC	10ADC	8ADC
Nominal output power	480W		
Output characteristic curve	IV characteristic according to DIN41772/DIN41773; power limited		
Voltage ripple	≤ 20mVpp	≤ 20mVpp	≤ 20mVpp
psophom. acc. to CCITT-A	<1.2mV	<1.8mV	<1.8mV
Dynamic accuracy of the output voltage	<3% Vnom at load changes between 10%-90%-10% Inom; correction 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	25A	20A
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	approx. 2.2kg	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. PSC305 (single DC input/output connection for each module)	
102-308-FR1.LV02 (Fan rack; recommended)	

DIMENSIONS



DS_PSC305_LV_2007_E_R03 - Subject to change without notice - Eltek Valere Industrial GmbH

Eltek Valere Industrial GmbH
Schillerstrasse 16
D-32052 Herford
Tel: +49 52 21 17 08 200
info.industrial@eltekvalere.com
www.eltekvalere.com

Finland
Eltek Energy Oy
Tel: +35 820 779 88 20
France
Eltek - SFEE SA
Tel: +33 562 340 930
Germany
Eltek Valere Industrial GmbH
Tel: +49 52 21 17 08 200
Eltek Valere Deutschl. GmbH
Tel: +49 694 2002 0

Norway
Eltek Valere AS
Tel: +47 32 20 32 00
Poland
Eltek Polska Sp. Z o.o.
Tel: +48 914 852 440
Russia
OOO Eltek St. Petersburg
Tel: +78 123 321 117
Slovakia
Eltek Energy Slovakia s.r.o.
Tel: +42 144 520 1607

Spain
Eltek Energia S.A.
Tel: +34 914 920 660
Sweden
Eltek Energy AB
Tel: +46 862 664 20
Alab DC Systems AB
Tel: +46 54 68 81 50
United Kingdom
Eltek Energy (UK) Ltd
Tel: +44 144 22 193 55

Australia
Eltek Pacific Pty Ltd
Tel: +61 294 794 200
Bangladesh
Eltek Energy Pte Ltd
Tel: +88 017 2097 097
India
Eltek SGS Pvt Ltd
Tel: +91 124 221 00 18
Malaysia
Eltek Energy (M)Sdn Bhd
Tel: +60 179 815 866/74 552

Pakistan
Eltek Energy AS Pakistan
Tel: +92 512 853 149
Philippines
Eltek Energy Incorporated
Tel: +63 291 063 55
Singapore
Eltek Energy Pte Ltd
Tel: +65 773 23 26
Thailand
Eltek Energy Incorp 2005 Ltd
Tel: +66 294 369 05

UAE
Eltek Middle East
Tel: +97 148 871 176
China
Eltek Energy Technology Ltd
Tel: +86 769 226 511 08
Hong Kong
Eltek Energy Ltd
Tel: +85 228 982 689
Brazil
Eltek Sistemas de Energia
Tel: +55 116 487 56 56

Colombia
Eltek Energy LLC
Tel: +57 162 216 91
USA
Eltek Energy LLC
Tel: +18 154 599 100
Mexico
Eltek Energy International
Tel: +52 55 53 74 1842
Peru
Eltek Energy de Peru SRL
Tel: +51 142 192 71