DC-DC CONVERTER 24/12 V DC & 24/24 V DC

CD5.121
PSU 24V dc I/P 12V dc 8A 96W O/P



- 32 mm wide
- Isolated output voltage
- Wide input voltage range
- 20 % power boost

PRODUCT DESCRIPTION

The Puls Dimension DC-DC converter features high efficiency, very compact dimensions and mounting on DIN rail. The input voltage can come from, for example, a power supply unit, batteries or solar panels. The output is galvanically isolated from the input. Examples of fields application are installation at the end of a long cable to stabilize voltage, conversion of one voltage to another or for isolation of specific loads. The DC-DC converters are equipped with a soft-start function, entailing that the current gradually rises to the nominal value. In this way, high starting currents are avoided that can cause voltage drops on the primary side and produce start-up problems. A 20 % power boost provides additional power resources during temporary current peaks. Article CD5.241-S1 is equipped with status outputs for controlling both the output voltage and the input voltage.

We recommend free space of 40 mm above the unit, 20 mm under and 5 mm at the sides.

SPECIFICATIONS

Approvals	ABS, ATEX, CB, CE, CSA, GL, IECEx, UL
Depth	102
Effect	96
Efficiency	88.2
Height	124
Input Capacitance	3000
Input voltage DC	24 V
Input voltage dc max	32.4
Input voltage dc min	18
Inrush current	Typ. 1,2 A @ 24 V DC
IP Class	IP20

Keep time	Typ. 7 ms @ 24 V DC
Life span	63000 h @ 12 V DC, 8 A, 40 °C
Max entrance tripple	5
MTBF (IEC 61709)	1161000 @ 12 V DC, 8 A, 40 °C
Output Current	8
Output voltage	12
Output voltage max	15
Output voltage min	12
Power Reduction Of 60 To 70 ° C	2.5
Ripple. max	75
Series	Dimension C
Start-Up Delay	420
Temperature Range Without Derating From	-25
Temperature Range Without Derating To	60
Weight	0.425
Width	32

Fig. 5-1 **Output voltage vs. output current at 24Vdc input voltage, typ.**

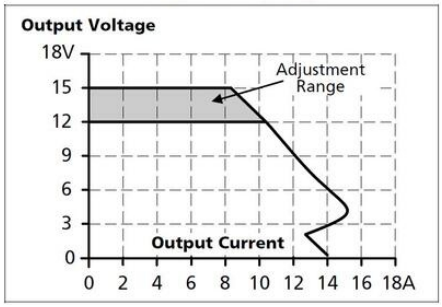

Fig. 13-1 **Output current vs. ambient temp.**

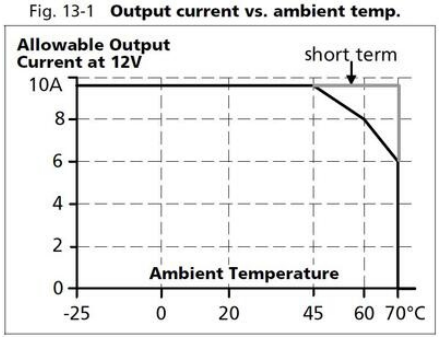

Fig. 7-1 **Efficiency vs. output current at 12V output and 24Vdc input voltage, typ.**

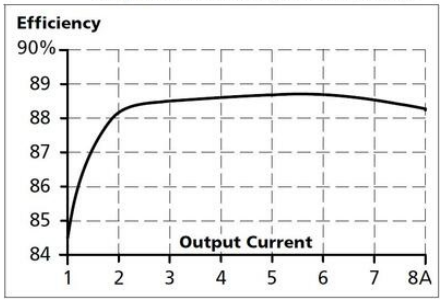

Fig. 7-2 **Losses vs. output current at 12V output and 24Vdc input voltage, typ.**

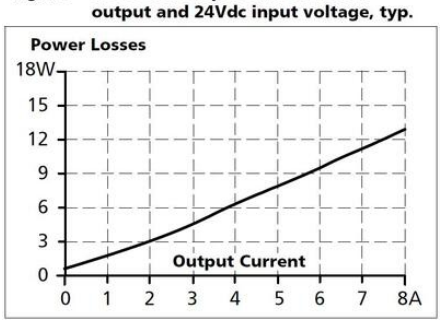

Fig. 9-1 **Front side**



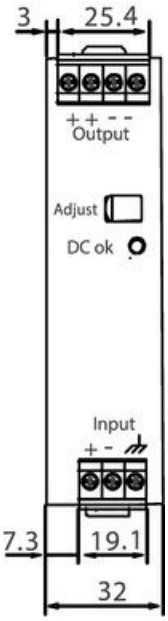

Fig. 19-2 **Side view**

