

KPL116 DC POWER BUS 14VDC CONVERTER

KUERZI
AVIONICS

Technical Data Sheet



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Description

The KPL116 DC POWER BUS 14VDC CONVERTER efficiently converts power from a wide voltage range DC POWER BUS to a non isolated and regulated 14VDC output. The KPL116 sets the Level Of Service (LOS) for the 14VDC subnet devices, which then are turned on and off according to their attributed priority. The KPL116 communicates via a CAN-bus connection and includes a protection against overvoltage, overcurrent, short circuit and overheat, while still being smaller and lighter than many of its competitors.

What is more, the KPL116 features a separate 28VDC general purpose output in addition to the 14VDC power bus. The general purpose output is protected by a 5A fuse.

The KPL116 meets aviation standards and requirements and is delivered with an EASA Form 1. The applicable STC can be provided by us specifically for your aircraft type.

Features

- Converts 9-28VDC to 14VDC, max. 30A
- Small and lightweight
- Overvoltage & short circuit protection, overcurrent & overheat protection
- LOS for subnet components
- CAN bus communication
- Additional 28VDC, 5A general purpose output
- Use as standalone converter

Application example

The KPL116, as our standard converter, is installed in cabins of civil operated helicopters as part of our Modular Mission System (MMS). It is also used as standalone converter.

Customized output voltage and output power versions are available on your request.

Technical Specifications

Nominal Operating Input Voltage	28.00 V
Max Operating Voltage	32VDC
Nominal Operating Input Current	23.00 A
Max Operating Temperature	Designed to +70°C
General comment	Other output voltage and power versions available
Flammability	Proven avionics components in metallic case
Nominal Operating Input Power	480.00 W
Output Power	420.00 W

Environmental Specifications according DO-160 / ED-14

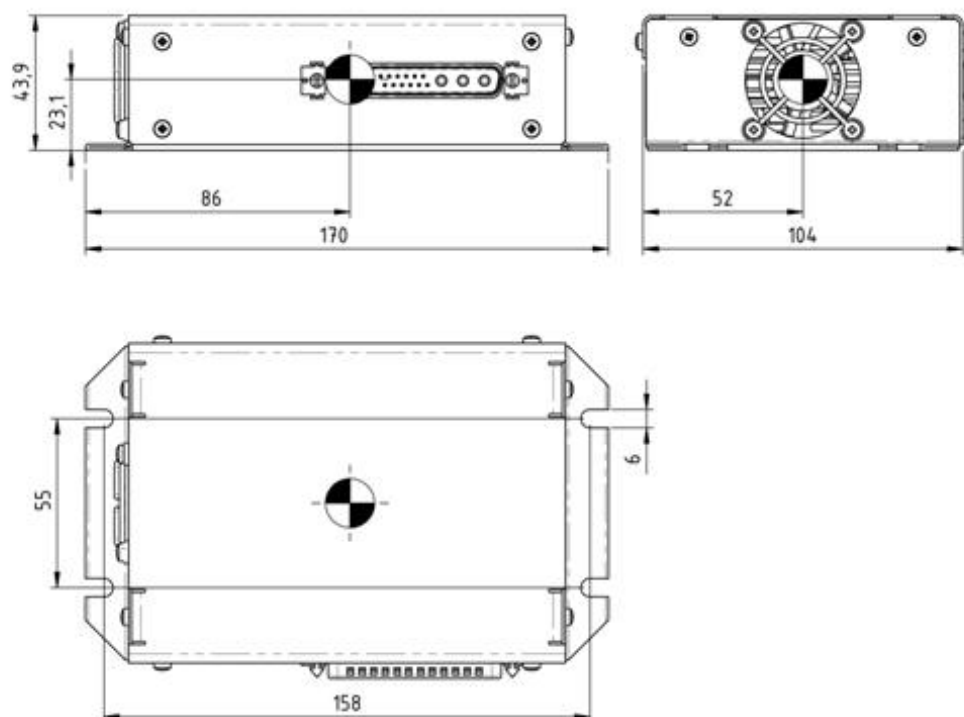
Operational Shock and Crash Safety	DO-160G Section 7 Cat. B
Emission of Radio Frequency Energy	DO-160G Section 21 Cat. M

Mechanical Dimensions

Weight of the unit 570.00 Gr

Weight of the unit including required installation materials (w/o wiring) 590.00 Gr

All dimensions [mm]



Configuration / Ordering Data

Part Number	Type	Description
1212911.43	KPL116	DC power bus 28VDC input to 14VDC output converter

Additional Parts for installation:

Qty	Part Number	Description
1	FM-17W5S-K121	D-SUB, SOCKET, 17POL, SLDR
12	M39029/63-368	CONTACT, SOCKET, AWG20-24, D-SUB, CRIMP
5	FMP004S103	BUCHSENKONTAKT, CRIMP, AWG10-8, 40A
1	D37000ANVL0	D-SUB, CASE ALU, 37POL, VIBRATION LOCK LEVER
1	1212911.7	KME136 INTEGRATED CONFIGURATION MODULE