

KPL124 DC-DC CONVERTER XVOOUT

KUERZI
AVIONICS

Technical Data Sheet



Kuerzi Avionics AG
Flugplatz
CH-9506 Lommis

info@kuerzi.com
www.kuerzi.com

Tel. +41 52 376 22 27

Description

The KPL124 DC-DC CONVERTER XVOOUT converts power from a wide range input voltage to an output voltage which is pin programmable to 5VDC, 14VDC or 28VDC. Other values can easily be made available on request.

The end user can set the KPL124 output current limit by simply inserting an electronic module. Various values are available, others can easily be made available on request.

The power input is protected by an internal 30A fuse. The combination of maximum output power and minimum input voltage shall always be set so that the input current stays below the mentioned fuse value.

The low weight and the selectable output parameters of the unit with its high efficiency make it one of the best in its class with regards to power/weight-ratio and applicability!

The KPL124 meets aviation standards and requirements and is delivered with an EASA Form 1. The applicable approval can be provided by us specifically for your aircraft type.

Features

- Voltage input range 10 - 60VDC
- 5VDC / 14VDC / 28VDC selectable output
- selectable output limit from 5A - 40A
- only 0.6 kg
- efficiency up to 93%
- Emission of Radio Frequency Energy tested:
DO-160G Section 21 Cat. M, H, P & Q
- Fire/Flammability:
Proven avionics material in metallic casing

Application Example

The KPL124 is currently certified and in operation in Agusta AW139 aircraft. One of its uses is to provide stabilised power to an EMS installation.

On your request the KPL124 can be altered or adapted to your requirements.

Technical Specifications

Max Input Current	30.00 A
Flammability	DO-160G Section 21 Cat. M, H, P, Q
Master Document List Number	Proven avionics material in metallic casing

Environmental Specifications according DO-160 / ED-14

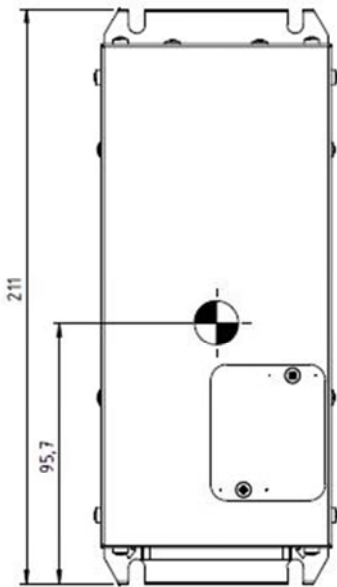
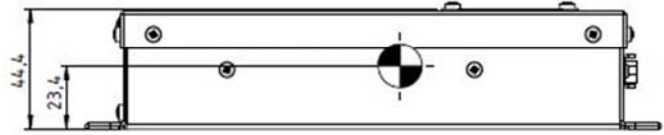
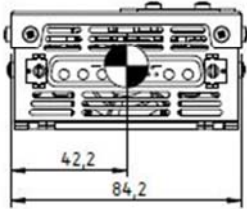
Temperature and Altitude	DO-160G X
Temperature Variation	DO-160G X
Humidity	DO-160G X
Operational Shock and Crash Safety	DO-160G X
Vibration	DO-160G X
Explosion Proofness	DO-160G X
Waterproofness	DO-160G X
Fluids Susceptibility	DO-160G X
Sand and Dust	DO-160G X
Fungus Resistance	DO-160G X
Salt Spray	DO-160G X
Magnetic Effect	DO-160G X
Power Input	DO-160G X
Voltage Spike	DO-160G X
Audio Frequency Conducted Susceptibility - Power Inputs	DO-160G X
Induced Signal Susceptibility	DO-160G X
Radio Frequency Susceptibility (Radiated and Conducted)	DO-160G X
Emission of Radio Frequency Energy	DO-160G Cat: M,H,P,Q
Lightning Induced Transient Susceptibility	DO-160G X
Lightning Direct Effects	DO-160G X
Icing	DO-160G X
Electrostatic Discharge	DO-160G X
Fire, Flammability	DO-160G X

Mechanical Dimensions

Weight of the unit 0.60 kg

Weight of the unit including required installation materials (w/o wiring) 0.62 Kg

All dimensions [mm]



Configuration / Ordering Data

Part Number	Type	Description
1619381-1	KPL124	DC-DC converter with a wide input range from 10 to 48VDC. DC output is pin programmable.

Additional Parts for installation:

Qty	Part Number	Description
1	1619381-2-1	KPL124 DC-DC CONVERTER FUSE BOARD PCB ASSY, 40A
1	FM-17W5S-K121	D-SUB, SOCKET, 17POL, SLDR
1	1619381-2-3	KPL124 DC-DC CONVERTER FUSE BOARD PCB ASSY, 10A
1	1619381-2-2	KPL124 DC-DC CONVERTER FUSE BOARD PCB ASSY, 20A
1	1619381-2-4	KPL124 DC-DC CONVERTER FUSE BOARD PCB ASSY, 30A