

# APK25 Series

## 30W Hi-Rel Industrial DC-DC Converters

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### Features

- Convection cooled & ruggedised, fully encapsulated.
- EMC hardened for "dirty" electrical environments.
- Reliable and durable with field-proven MTBF (720,000hrs).
- Simple installation with top-down mounting and pluggable I/O connections, DIN rail ready.

### 30W APK25 Series Specifications

Model	Input Voltage	Input Fusing Recommended	Output Rating
APK25-1205	12V nominal (10.8-16V continuous)	10AF	5V 6A
APK25-1212			12V 2.5A
APK25-1224			24V 1.25A
APK25-1248			48V 0.65A
APK25-2405	24V nominal (21-32V continuous)	5AF	5V 6A
APK25-2412			12V 2.5A
APK25-2424			24V 1.25A
APK25-2448			48V 0.65A
APK25-4805	48V nominal (42-64V continuous)	2.5AF	5V 6A
APK25-4812			12V 2.5A
APK25-4824			24V 1.25A
APK25-4848			48V 0.65A

Input	
Reverse Polarity Protection	Blow input fuse <i>(see recommended input fusing above)</i>
Input Surge, Transient, and Immunity	1.5kW transorb protected
Output	
Setup Accuracy	better than 4%
Input Adjustment	+/- 10% typical
Line & Load Regulation	better than 0.25%
Noise & Ripple (20MHz BW)	better than 1% (<100mV <sub>p-p</sub> 5V models)
Efficiency	88% (typical)
Current Limit	120% $I_{rated}$
Overload Protection	Constant Current / Hiccup Mode
Mechanical	
Dimensions	100(W) x 65(H) x 18(D)mm
Enclosure / Casing	Black anodised aluminium extrusion
Weight	0.18kg
Isolation	
Input to Output	500Vdc
Input to Chassis	500Vdc
Output to Chassis	500Vdc

Operating Conditions	
Operating Temperature $T_{max}$ (no derating)	
Standalone Free Air Convection Cooling	55°C $T_{amb}$
Chassis Conduction Cooling	90°C $T_{chassis}$
Over-Temperature Protection	100°C $T_{chassis}$ (auto-recovery)
MTBF ( $G_m, T_{amb}=25^{\circ}C$ )	720,000hrs <i>(designed to meet MIL-SPEC 217K)</i>
Shock and Vibration	Fully Encapsulated Designed to Meet MIL-STD 810E & IEC61373
Relative Humidity	95%
Power-On Indication	Green LED (on output side panel)
Input & Output Mating Connectors	2.5mm <sup>2</sup> Screw Terminal Block
Options	
Adjustable Output	-adj (+/-7% typical via pot)

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### 30W APK25 Series Mechanical Diagram

