

APK60 Series

60W Hi-Rel Industrial DC-DC Converters

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Rapid Dispatch

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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.



60W APK60 Series Specifications

Model	Input Voltage	Input Fusing Recommended	Output Rating
APK60-1205	12V nominal (10.8-16V continuous)	10AF	5V 12A
APK60-1212			12V 5A
APK60-1224			24V 2.5A
APK60-1248			48V 1.25A
APK60-2412	24V nominal (21-32V continuous)	5AF	12V 5A
APK60-2424			24V 2.5A
APK60-2448			48V 1.25A
APK60-4805	48V nominal (42-64V continuous)	2.5AF	5V 12A
APK60-4812			12V 5A
APK60-4824			24V 2.5A
APK60-4848			48V 1.25A

More input / output voltages available on request. Standard lead times apply.

Input	
Reverse Polarity Protection	Blow input fuse (see recommended input fusing above)
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 _{p-p} 5V models)
Efficiency	88% (typical)
Current Limit	120% I _{rated} (@90%V _{nominal})
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 <i>max</i> (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°C)	720,000hrs (designed to meet MIL-SPEC 217K)
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 ² Screw Terminal Block
Options	
Adjustable Output	-adj (+/-7% typical via pot)

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60W APK60 Series Mechanical Diagram

