

APK120 SERIES

DC / DC Single Output: 120 Watts



Features

- Wide range of input options
- Convection cooled: No fans
- Low profile 25mm
- Fully encapsulated, ideal for harsh environments
- Fully isolated input – output
- Over voltage protection
- Overload and short circuit protection
- Suitable for a wide range of applications
- MTBF > 200,000hrs
- Specials input / output combinations on request.
- Battery Charging options: Consult office

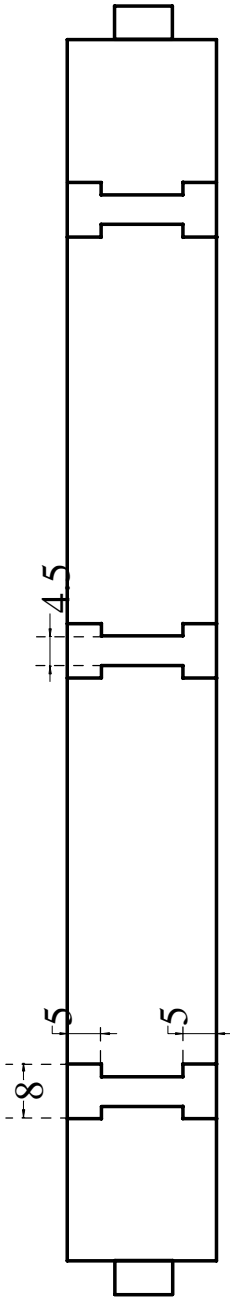
Specifications:

Input Voltage	12VDC (10.5 ~ 20) 24VDC (18.5 ~ 40) 48VDC (36 ~ 72) 110VDC (80 ~ 175) • Other voltages on request
Input Protection	By external fuse
Input Current	12V 16A (nominal 10A) Recommend Fuse: 20A 24V 8A (nominal 5A) Recommend Fuse: 10A 48V 4A (nominal 2.5A) Recommend Fuse: 5A 110V 2A (nominal 1A) Recommend Fuse: 2.5A
Input Surge Protection	Designed to meet IEC61000-4-4, -5
Efficiency	Model dependent typically 86%
Voltage Accuracy	Voltage setting within 1%
Output Voltage	Refer to table
Output Voltage Adjustment	Fixed Voltage
Output Protection	Current Limiting constant current with hiccup mode
Thermal Protection	Automatic recovery after over temperature condition subsides: typically 105°C case temp.
Over Voltage Protection	Unit latch off, reset by recycling input after 2minutes

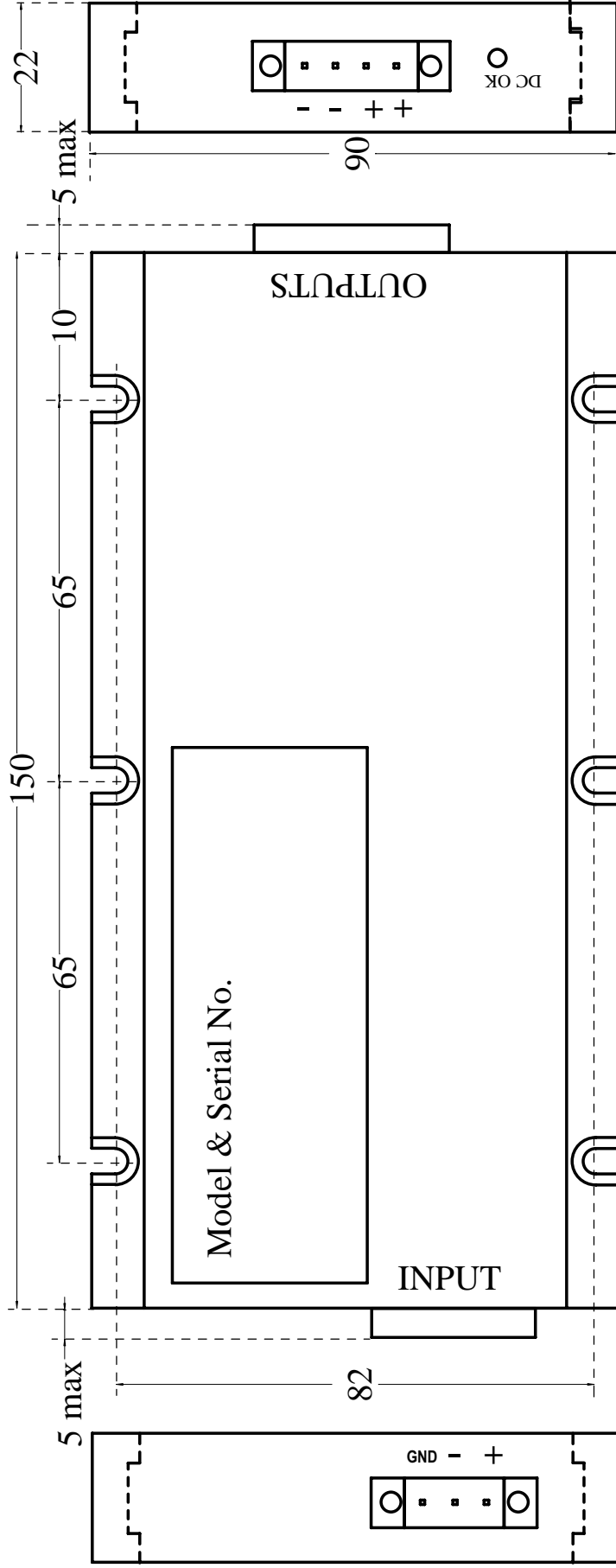
Isolation	Input – Output: 1000vdc, Input – Chassis: 1000vdc Output – Chassis: 500vdc
Line Regulation	±0.25%
Load Regulation	±0.5%
Output Ripple & Noise	Switching frequency ripple 0.25% of V out High frequency spike (30MHz BW) 0.5% of V out
Operating Temp	-20°C to +55°C at full load
Cooling	Convection cooled
Humidity	5 ~ 95% RH Non Condensing
Shock & Vibration	Fully encapsulated, designed to meet MIL-STD 810E
MTBF	>200khrs
Indicator	Green LED
Terminals	Input and Output pluggable terminal block
Dimensions	90 x 150 x 25mm (W.L.H) 500g

Model	Input	Output		Power
	V	V	A	W
APK120-1212	12V	12V	10A	120W
APK120-1213.8	12V	13.8V	8.7A	120W
APK120-1224	12V	24V	5A	120W
APK120-1248	12V	48V	2.5A	120W
APK120-2412	24V	12V	10A	120W
APK120-2413.8	24V	13.8V	8.7A	120W
APK120-2424	24V	24V	5A	120W
APK120-2448	24V	48V	2.5A	120W

Model	Input	Output		Power
	V	V	A	W
APK120-4812	48V	12V	10A	120W
APK120-4813.8	48V	13.8V	8.7A	120W
APK120-4824	48V	24V	5A	120W
APK120-4848	48V	48V	2.5A	120W
APK120-11012	110V	12V	10A	120W
APK120-11013.8	110V	13.8V	8.7A	120W
APK120-11024	110V	24V	5A	120W
APK120-11048	110V	48V	2.5A	120W



BASE



Title APK120 Mechanical outline		Doc No APK120-Outline	Issue A
Amtex	Drawn By: RC	Chkd:	Appyd:
	Date: 2nd Apr 2002	Date:	Date:
		Sheet 1	of 1

Finish: Black anodised.

Note: Remove all burr and shape edges
All dimensions in mm unless otherwise stated.