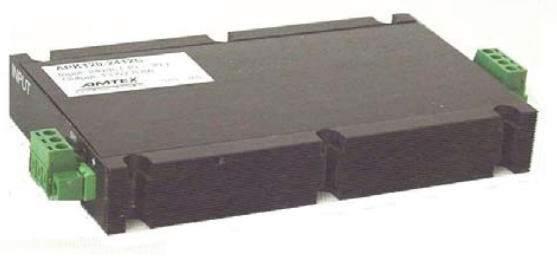


# APK120 SERIES

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

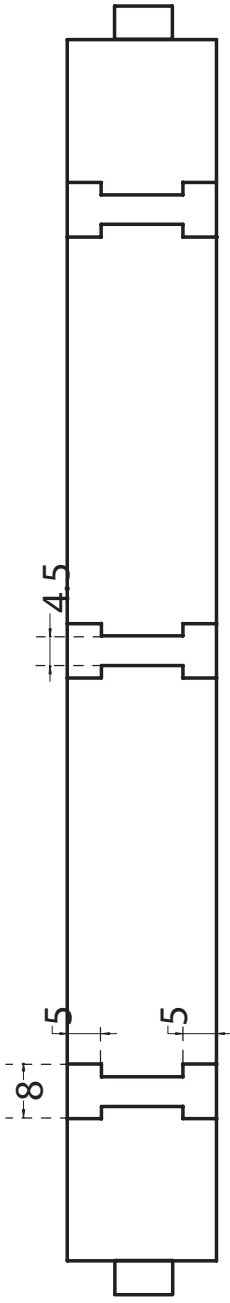
## Specifications:

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

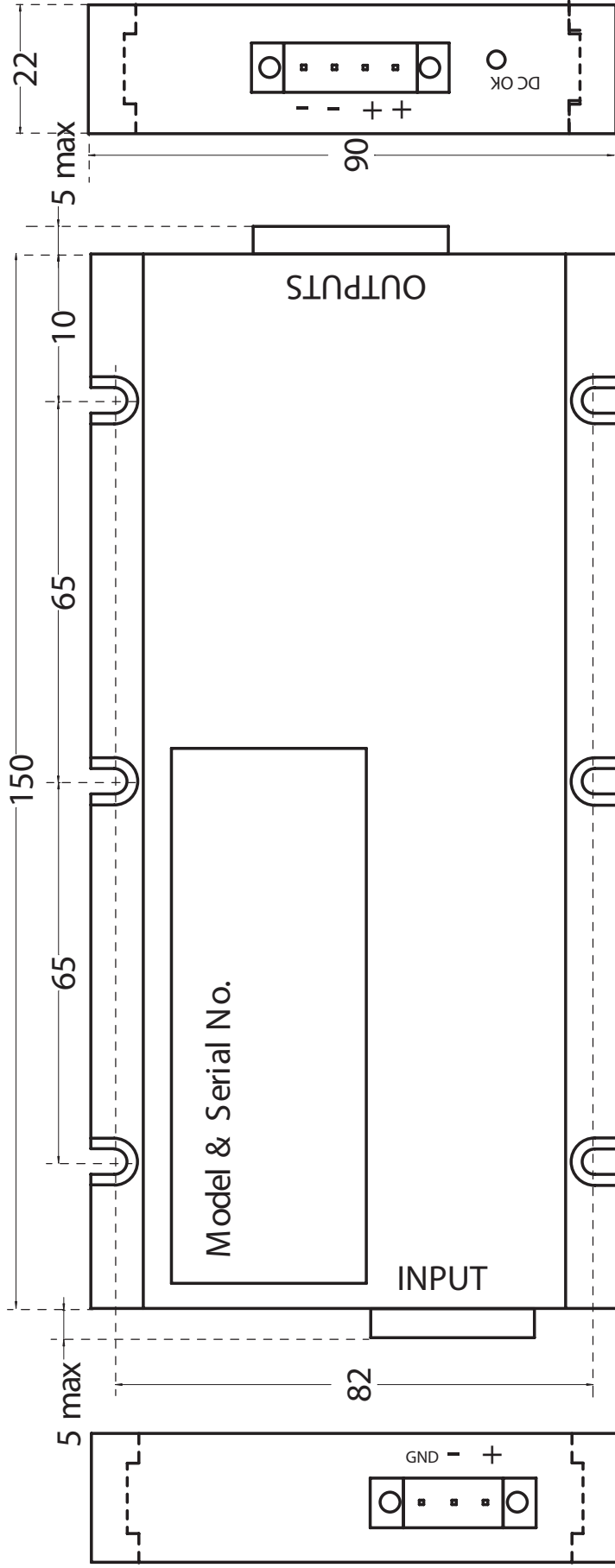
<b>Isolation</b>	Input – Output: 1000vdc, Input – Chassis: 1000vdc Output – Chassis: 500vdc
<b>Line Regulation</b>	±0.25%
<b>Load Regulation</b>	±0.5%
<b>Output Ripple &amp; Noise</b>	Switching frequency ripple 0.25% of V out High frequency spike (30MHz BW) 0.5% of V out
<b>Operating Temp</b>	-20°C to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

Model	Input V	Output		Power W
		V	A	
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 V	Output		Power W
		V	A	
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



Finish: Black anodised.

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

Title <b>APK 120</b> Mechanical outline		Doc No <b>APK 120-Outline</b>	Issue <b>A</b>
 www.heliosps.com	Drawn By: <b>RC</b>	Chkd:	Appvd:
	Date: <b>2nd Apr 2002</b>	Date:	Date:
		Sheet <b>1</b>	of <b>1</b>