

..... Rugged Power You Can Reply on.....

- Reliable and Durable with Field Proven MTBF
- Ruggedized for Harsh Environment
- Transient & Surge protected for 'dirty' electrical area
- Space saving with Low profile and Highly Integrated Design
- Simple installation with *Top-down Mounting and Pluggable I/O Connections*
- Versatile combinations with Extended Range of Input and Output available
- Dedicated technical support directly from The Australian Manufacturer





STANDARD MODELS (Non-standard input and output available upon request)								
30W Model:	Input voltage:	Input fusing recommended:	Output rating:					
GBX30-1205		5AF	5V 6A					
GBX30-1212	12V nominal 10.8V to 16V continuous		12V 2.5A					
GBX30-1224			24V 1.25A					
GBX30-1248			48V 0.65A					
GBX30-2405	24V nominal 21V to 32V continuous	2AF	5V 6A					
GBX30-2412			12V 2.5A					
GBX30-2424			24V 1.25A					
GBX30-2448			48V 0.65A					
GBX30-4805	48V nominal 42V to 64V continuous	1.5AF	5V 6A					
GBX30-4812			12V 2.5A					
GBX30-4824			24V 1.25A					
GBX30-4848			48V 0.65A					
02120			40 V U.U3A					
60W Model:	Input voltage:	Input fusing recommended:	Output rating:					
	Input voltage:	•						
60W Model:	Input voltage:  12V nominal	recommended:	Output rating:					
60W Model: GBX60-1205		•	Output rating: 5V 12A					
60W Model: GBX60-1205 GBX60-1212	12V nominal	recommended:	Output rating: 5V 12A 12V 5A					
60W Model: GBX60-1205 GBX60-1212 GBX60-1224	12V nominal	recommended:	Output rating: 5V 12A 12V 5A 24V 2.5A					
60W Model: GBX60-1205 GBX60-1212 GBX60-1224 GBX60-1248	12V nominal	recommended:	Output rating: 5V 12A 12V 5A 24V 2.5A 48V 1.25A					
60W Model: GBX60-1205 GBX60-1212 GBX60-1224 GBX60-1248 GBX60-2405	12V nominal 10.8V to 16V continuous	recommended:	Output rating:  5V 12A  12V 5A  24V 2.5A  48V 1.25A  5V 12A					
60W Model: GBX60-1205 GBX60-1212 GBX60-1224 GBX60-1248 GBX60-2405 GBX60-2412	12V nominal 10.8V to 16V continuous 24V nominal	recommended:	Output rating:  5V 12A  12V 5A  24V 2.5A  48V 1.25A  5V 12A  12V 5A					
60W Model: GBX60-1205 GBX60-1212 GBX60-1224 GBX60-1248 GBX60-2405 GBX60-2412 GBX60-2424	12V nominal 10.8V to 16V continuous 24V nominal	recommended:	Output rating:  5V 12A  12V 5A  24V 2.5A  48V 1.25A  5V 12A  12V 5A  24V 2.5A					
60W Model:  GBX60-1205  GBX60-1212  GBX60-1224  GBX60-1248  GBX60-2405  GBX60-2412  GBX60-2424  GBX60-2448	12V nominal 10.8V to 16V continuous 24V nominal	recommended: 10AF 5AF	Output rating:  5V 12A  12V 5A  24V 2.5A  48V 1.25A  5V 12A  12V 5A  24V 2.5A  48V 1.25A					
60W Model: GBX60-1205 GBX60-1212 GBX60-1224 GBX60-1248 GBX60-2405 GBX60-2412 GBX60-2424 GBX60-2424 GBX60-2448 GBX60-4805	12V nominal 10.8V to 16V continuous  24V nominal 21V to 32V continuous	recommended:	Output rating:  5V 12A  12V 5A  24V 2.5A  48V 1.25A  5V 12A  12V 5A  24V 2.5A  48V 1.25A  5V 12A					

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# **INPUT:**

Reverse polarity protection:

Blow input fuse (see table for recommended values)

Input surge, transient & immunity: 1.5KW transorb protected.

## **OUTPUT:**

Setup accuracy:
Input adjustment:
Line & Load regulation:
Noise and ripple (20MHz BW):

Efficiency:
better than 4%
typical ±10%
better than 0.25%
better than 1%
(<100mV<sub>p-p</sub> 5V model)
typical 88%

Current limit (@90% V<sub>nominal</sub>): 120% I<sub>rated</sub> (auto-recovery)

Overload protection: constant current/hiccup mode

### **ISOLATION:**

Input to Output:500VdcInput to Chassis:500VdcOutput to Chassis:500Vdc

# GBX30 & GBX60 30W & 60W hi-rel industrial DC/DC converters

## **MECHANICAL:**

Outside dimension: 100x65x18 (mm)
Casing: Black anodised aluminium extrusion

Weight: 0.18Kg

#### **OPERATING CONDITIONS:**

Operating temperature <sub>max</sub> (no derating)

standalone free air convection cooling: $55^{\circ}C$   $T_{amb}$ chassis conduction cooling: $90^{\circ}C$   $T_{chassis}$ Overtemperature protection: $100^{\circ}C$   $T_{chassis}$ 

(auto-recovery)

MTBF  $(G_b, T_{amb}=25^{\circ}C)$ : 720Khours (estimated MIL-SPEC 217K)

Shock and Vibration: MIL-STD 810E (designed to meet, fully encapsulated design) & IEC61373

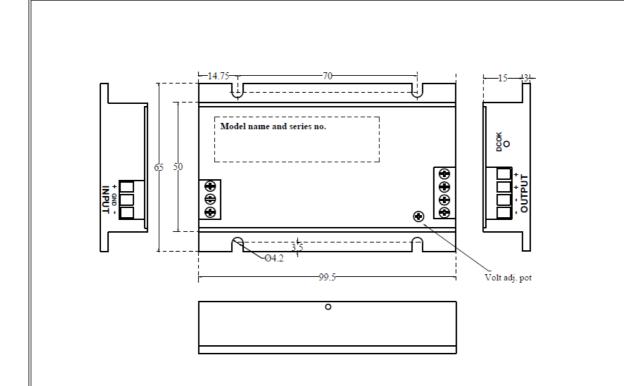
Relative Humidity: (designed to meet, fully encapsulated design)

Power on indication Green LED on output side panel

Input & Output mating connectors:

2.5mm<sup>2</sup> screw terminal block

95%



Finish: Black anodised.

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

GBX 30/60 Outline		Doc No GB-outline		Issue		
KaRaTec <sup>™</sup>	Drawn By :RC	Chkd:	Appvd :	•		
	Date: 20th Sept 2002	Date :	Date : Sheet 1		of	,