



GXR..



GHR..



Full Galvanic Isolation
Input potential cannot appear at the output
Highly Efficient, typically 80-85%
Fully protected and flexible application
Parallel / Redundancy option with 'DC OK' alarm
Short circuit protection.
Reverse polarity protection.
Rugged construction proven in harsh applications

Proven field reliability and performance under a variety of conditions.

GXR: Not recommended for battery charging

GHR: Suitable for battery charging

◆ 24 Month Warranty

SPECIFICATIONS All specifications are typical at nominal input, full load and at 25°C unless otherwise stated.

DC/DC Converters

ELECTRICAL	
DC Input	<ul style="list-style-type: none"> L: 10-16V M: 21-60V H: 60-132V Other: Please ask our sales staff
Protection	All models: Input fuse
• input	
• output	GXR: Overload: Output power limit Short circuit: Fuse GHR: Electronic current limit on overload or short circuit
Reverse Polarity	Input Reverse Polarity protection by diode which opens fuse
Transient Protection	Varistor across input to clamp supply transients (voltage spikes)
Isolation	≥ 1KV DC input / output ≥ 1KV DC input / output to ground
Efficiency	> 80%
Slow Start	1 second typical
Output Power	GXR: 70W continuous GHR: 150W continuous
Output Voltages	Refer to model table - other voltages available, please ask our sales staff
Voltage Adj. Range	GXR: ±10% by internal potentiometer GHR: ±10% by externally accessible potentiometer
Line Regulation	< 0.5% over input range
Load Regulation	< 0.7% open circuit to full load
Ripple	Typically 1% Peak-Peak
Noise	To CISPR14
Battery Charging Duty	GXR: No GHR: Yes

PHYSICAL	
Connections - In/Out	GXR: Plug-in screw terminal block GHR: 'Barrier' type screw terminal
Enclosure	Base anodised aluminium Cover powder coated mild steel (black colour)
Indicators	Green LED for Power On
Weight	GXR: 450g GHR: 1.25Kg
Mounting	GXR: M5 Ø holes 164 x 46 mm, and/or: M3 threaded inserts 164 x 66 mm GHR: To flat surface with brackets supplied, M4 Ø holes. Side mounting centres 140 x 78 mm, End mounting centres 216 x 78 mm

ENVIRONMENTAL	
Operating temperature	0 to 40°C, max. 50°C at 50% load
Storage temperature	-10°C to 70°C
Humidity	85% non-condensing
Cooling	Natural convection

ADDITIONAL OPTIONS	
Rack mount	Optional 19" x 2RU rack mounting
Reverse Polarity Protection	Specify series input diode for protection against reverse polarity (eg. for use in electric forklifts)
GHR only: Parallel Redundancy Option	Incorporate output series diode plus DC OK alarm contact for parallel redundancy operation - add suffix P
GHR only: Parallel Operation	Refer to model table for rated outputs (output diodes not essential)

STANDARD PREFERRED MODEL TABLE - GXR (70 Watt Nominal)

MODELS	DC Input*		DC Output*	
	Voltage Range	Preset Voltage	Voltage Range	Output Current
GXR-L-12	10 - 14.4V	13.8V	11.8 - 14.0V	5.0A
GXR-L-24	10 - 14.4V	24V	23.5 - 28.0V	3.0A
GXR-L-48	10 - 14.4V	48V	47.0 - 56.0V	1.5A
GXR-M-12	21 - 60V	13.8V	11.8 - 14.0V	5.0 / 8.0A ¹
GXR-M-24	21 - 60V	24V	23.5 - 28.0V	3.0A
GXR-M-48	21 - 60V	48V	47.0 - 56.0V	1.5A
GXR-H-12	60 - 132V	13.8V	11.8 - 14.0V	5.0A
GXR-H-24	60 - 132V	24V	23.5 - 28.0V	3.0A
GXR-H-48	60 - 132V	48V	47.0 - 56.0V	1.5A

* Other input / output voltages available - please ask our sales staff.

¹ Intermittent 100W e.g. for radio telephone duty

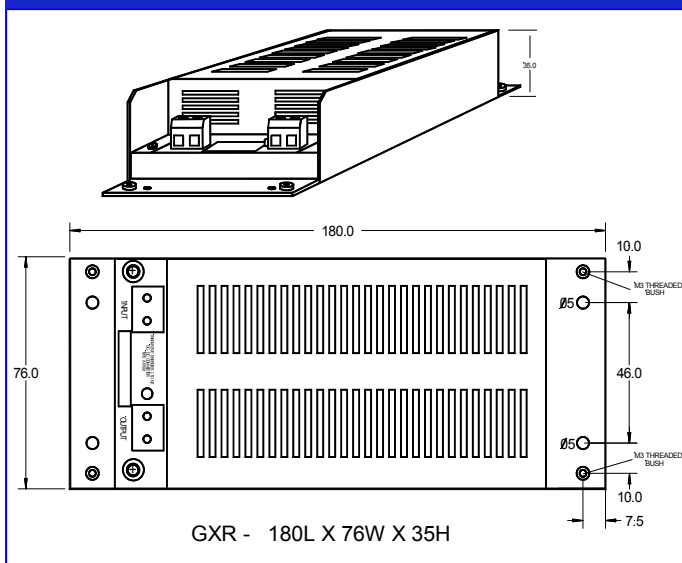
NOTE:
Add input series diode for electric forklift operation - see Options

STANDARD PREFERRED MODEL TABLE - GHR (150 Watt Nominal)

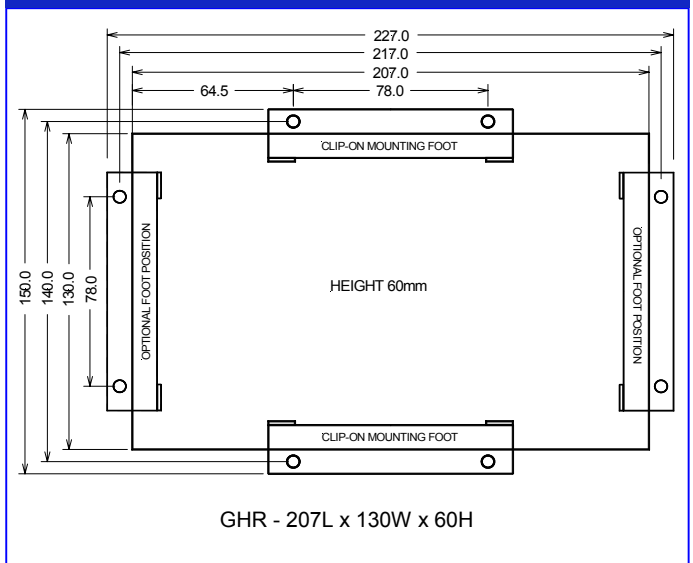
MODELS	DC Input*		DC Output*		
	Voltage Range	Preset Voltage	Voltage Range	Output Current	Output 2 units in parallel (W)
GHR-L-12	10 - 16V	13.8V	11.8 - 14.0V	11.2A	240
GHR-L-24	10 - 16V	24V	23.5 - 28.0V	6.2A	220
GHR-L-48	10 - 16V	48V	47.0 - 56.0V	3.2A	210
GHR-M-12	21 - 60V	13.8V	11.8 - 14.0V	11.2A	240
GHR-M-24	21 - 60V	24V	23.5 - 28.0V	6.2A	220
GHR-M-48	21 - 60V	48V	47.0 - 56.0V	3.2A	210
GHR-H-12	60 - 132V	13.8V	11.8 - 14.0V	11.2A	240
GHR-H-24	60 - 132V	24V	23.5 - 28.0V	6.2A	220
GHR-H-48	60 - 132V	48V	47.0 - 56.0V	3.2A	210

DC/DC Converters

MOUNTING DETAILS / DIMENSIONS - GXR



MOUNTING DETAILS / DIMENSIONS - GHR



INSTALLATION

The units are designed to be mounted on a flat level surface. The units do not rely on any external surface for cooling, however see the notes in the supplementary section under ventilation. The most effective mounting for minimal temperature rise is for the mounting base to be on a level surface.