



GXT..



GHR..

- Full Ga-Vanic Isolation
- Output over voltage protection
- High efficiency switch mode design
- Input fuse protection with transient/surge suppression
- Constant current limit for charging
- Optional output decoupling diode for parallel redundancy
- Short circuit protection
- Reverse polarity protection
- Proven rugged construction
- Complies with EMI standards CISPR22:1985 & AS/NZS3548:1992

**All Models Suitable
for Battery Charging**

◆ 24 Month Warranty

SPECIFICATIONS All specifications are typical at nominal input, full load and at 20°C unless otherwise stated.

ELECTRICAL		PHYSICAL	
DC Input	<ul style="list-style-type: none"> • L: 10-16V • M: 21-60V • H: 60-132V • Please note that our SR250 –750A series is suitable for 110-375VDC input 	Connections - In/Out	GXT: Plug-in screw terminal block GHR: 'BarrGr' type screw terminal
Protection		Enclosure	Base: anodised aluminium Cover: black powder coated mild steel
• input	All models: Input fuse	Indicators	Green LED for <i>Power On</i>
• output	GXT: <i>Overload:</i> constant current limit <i>Short circuit:</i> shutdown to zero output (reset by power off) GHR: Constant current limit on overload or short circuit	Weight	GXT: 450g GHR: 1.25Kg
Reverse Polarity	Input Reverse Polarity protection by diode which opens fuse	Mounting	GXT: 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
Transient Protection	Varistor across input to limit supply transients (voltage spikes)	ENVIRONMENTAL	
Isolation	≥ 1KV DC input / output ≥ 1KV DC input / output to ground	Operating temperature	0 to 40°C; linearly derate to 50% output at 50°C
Efficiency	80-85% (model dependent)	Cooling	Natural convection
Overvoltage Protection (GXT only)	Operates at 25% above nominal output voltage (converter shuts down - reset by power off)	Humidity	0 - 95% relative humidity non-condensing
Soft Start	1 second typical	OPTIONS	
Output Power	GXT: 70W continuous GHR: 150W continuous	Parallel Redundancy	Output decoupling diode plus DC OK alarm (Relay contacts rated 1A, 50VDC/32VAC) Order Code: add suffix – P
Output Voltages	Refer to model table - other voltages available, please ask our sales staff	Rack mount	Converter fitted into 19" x 2U subrack Order Code: +RM2U
Voltage Adj. Range	±10% by externally accessible potentiometer		For rack mount with parallel redundancy add: +P2UXT or +P2UHR
Line Regulation	< 0.5% over input range	DIN Rail Mount	GXT only: add: DINKIT
Load Regulation	< 0.7% open circuit to full load		
Ripple	Typically 1% Peak-Peak		
Noise	To CISPR22		

STANDARD MODEL TABLE - GXT (70 Watt unless otherwise stated)

MODELS ³	DC Input ¹	DC Output ²		
	Voltage Range (V)	Nominal Voltage (V)	Voltage Range (V)	Output Amps at Nominal Voltage
GXT-L-12	10.5-16	13.8	11 - 14	5.0
GXT-L-24	10.5-16	24	22-27	2.9
GXT-L-48	10.5-16	48	43-52	1.5
GXT-M-12	21 - 60	13.8	11 - 14	5.0 / 8.0 ⁴
GXT-M-24	21 - 60	24	22-27	3.0
GXT-M-48	21 - 60	48	43-52	1.5
GXT-M-110	21 - 60	110	100-120	0.45 (50W)
GXT-H-12	60 - 132	13.8	11-14	5.0
GXT-H-24	60 - 132	24	22-27	3.0
GXT-H-48	60 - 132	48	43-52	1.5
GXT-H-110	60 - 132	110	100-120	0.45 (50W)

*1 If voltage is below the minimum stated, the power output is reduced - please contact us for details

*2 Please specify if required for battery charging (except for 12V models)

*3 Other output voltages available, please ask our sales team

*4 100W at 50% duty cycle for radio tele-phones

Dimensions: GXT
180L x 76W x 35H

STANDARD MODEL TABLE - GHR (150 Watt)

MODELS	DC Input*1	DC Output*2		
	Voltage Range (V)	Nominal Voltage (V)	Voltage Range (V)	Output Amps at Nominal Voltage
GHR-L-12	10.5-16	13.8	11-14	11.2
GHR-L-24	10.5-16	24	22-28	6.2
GHR-L-48	10.5-16	48	43-55.2	3.2
GHR-M-09	21-60	9	8-10	16
GHR-M-12	21-60	13.8	11-14	11.2
GHR-M-21	21-60	21	19-23	7
GHR-M-24	21-60	24	22-28	6.2
GHR-M-36	21-60	36	32-41.4	4
GHR-M-48	21-60	48	43-55.2	3.2
GHR-H-12	60 - 132	13.8	11-14	11.2
GHR-H-24	60 - 132	24	22-28	6.2
GHR-H-48	60 - 132	48	43-55.2	3.2

Dimensions: GHR
207L x 130W x 60H