



- Isolated input- output
- IEXT = 70W, IEHR = 150W
- Designed for industrial use
- Output over voltage protection (IEXT)
- Input transient/surge suppression
- Suitable for battery charging
- Constant current limit for charging (IEXT)
- Optional output decoupling diode for parallel redundancy
- Short circuit protection
- Reverse polarity protection
- External trim pot for output voltage adjustment
- Complies with EMI standards CISPR22:1985 & AS/NZS3548:1992

◆ 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"> • LV: 11-16V • MV: 21-60V • HV: 60-132V 	Connections - In/Out	IEXT: Plug-in screw terminal block IEHR: 'Barrier' type screw terminal
Protection - input	All models: Input fuse	Enclosure	Base: anodised aluminium Cover: black powder coated mild steel
• output	IEXT: <i>Overload:</i> constant current limit <i>Short circuit:</i> shutdown to zero output (reset by power off) IEHR: Hiccup current limit on overload or short circuit	Indicators	Green LED for Power On
Reverse Polarity	IEXT/LV & IEHR: input fuse IEXT/MV & IEXT/HV: not polarity sensitive	Weight	IEXT: 450g IEHR: 1.25Kg
Transient Protection	Varistor across input to limit supply transients (voltage spikes)	Mounting	IEXT: M5 Ø holes 164 x 46 mm, and/or: M3 threaded inserts 164 x 66 mm IEHR: To flat surface with brackets supplied, M4 Ø holes. Side mounting centres 140 x 78 mm, End mounting centres 216 x 78 mm
Isolation	1KV DC input - output / earth	OPTIONS	
Efficiency	LV: 72-80%, MV: 80-87%, HV: 85-87%	Parallel Redundancy	Output decoupling diode plus DC OK alarm (Relay contacts rated 1A, 50VDC/32VAC) Add suffix - P
Overvoltage Protection (IEXT only)	Operates at 25% above nominal output voltage (converter shuts down - reset by power off)	Rack mount	Converter fitted into 19" x 2U subrack Add : +RM2U For rack mount with parallel redundancy Add: +P2UXR or +P2UHR
Soft Start	1 second typical	DIN Rail Mount	Using DIN rail clips, code DINKIT
Output Power	IEXT: 70W continuous IEHR: 150W continuous	Fork Hoist Use (IEXT only)	Add input resistor, input range 40-60V. Add option +FORKHOIST
Output Voltages	Refer to model table - other voltages available, please ask our sales staff	Low Temperature	Operation to -20°C, add suffix -LT
Voltage Adj. Range	Approx. ±10%, refer to model table	Conformal Coating	For harsh environments, add option: +CONFORMAL COATING
Line Regulation	< 0.5% over input range	Battery Charging	The IEXT has a constant output current limit and is suitable for battery charging. The IEHR does not have a constant current limit but may be used for float charging lead acid batteries for some applications.
Load Regulation	< 0.7% open circuit to full load	Undervoltage lockout	Available on IEXT/LV models. Lockout at 10.2V, auto reset at 12.4V, add suffix -UV
Ripple	Typically 1% Peak-Peak		
EMC	To CISPR22		
Operating temperature	0 to 40°C; linearly derate to 50% output at 50°C		

70-150W Isolated DC-DC Converter

IEXT & IEHR

IEXT - 70 Watt				
MODELS	DC Input	DC Output		
	Voltage Range	Voltage * ¹	Amps	Voltage Range
IEXT/LV-05* ²	11-16	5	10	4.5 - 5.5
IEXT/LV-12	11-16	13.8	5.0	11 - 14
IEXT/LV-18	11-16	18	3.8	16 -20
IEXT/LV-24	11-16	24	2.9	22-28
IEXT/LV-48	11-16	48	1.5	43-55.2
IEXT/MV-08	21 - 60	8	6.5	7 - 9.5
IEXT/MV-12	21 - 60	13.8	5.0	11 - 14
IEXT/MV-18	21 - 60	18	3.8	16.6 - 20.3
IEXT/MV-24	21 - 60	24	3.0	22-28
IEXT/MV-48	21 - 60	48	1.5	43-55.2
IEXT/HV-12	60 - 132	13.8	5.0	11-14
IEXT/HV-24	60 - 132	24	3.0	22-28
IEXT/HV-48	60 - 132	48	1.5	43-55.2

*1 Factory set output unless otherwise requested. All models may be set for float charging lead acid batteries.

110VDC output, 140W models available, please ask our sales office for more details.

12-60 Watt dual output models available, minimum order quantity may apply, refer to product code **IEXTD...**

*2 No overvoltage protection

IEHR - 150 Watt				
MODELS	DC Input	DC Output		
	Voltage Range	Voltage * ¹	Amps	Voltage Range
IEHR/LV-12	10.5-16	13.8	11.2	11-14
IEHR/LV-24	10.5-16	24	6.2	22-28
IEHR/LV-36	10.5-16	36	4.2	32-41.4
IEHR/LV-48	10.5-16	48	3.2	43-55.2
IEHR/MV-09	21-60	9	16	8-10
IEHR/MV-12	21-60	13.8	11.2	11-14
IEHR/MV-19	21-60	19	7.9	17-21
IEHR/MV-21	21-60	21	7	19-23
IEHR/MV-24	21-60	24	6.2	22-28
IEHR/MV-36	21-60	36	4	32-41
IEHR/MV-48	21-60	48	3.2	43-55.2
IEHR/HV-12	60 - 132	13.8	11.2	11-14
IEHR/HV-24	60 - 132	24	6.2	22-28
IEHR/HV-36	60 - 132	36	4.2	32-41.4
IEHR/HV-48	60 - 132	48	3.2	43-55.2



Dimensions: IEXT
180L x 76W x 35H



Dimensions: IEHR
207L x 130W x 60H