


IEXT

- 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 | 72-85% (model dependent) | 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, add DINKIT |
| Output Power | IEXT: 70W continuous IEHR: 150W continuous | Fork Hoist Use | Please call our sales staff to discuss your application, 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 code: +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 in practice it may still be used for float charging lead acid batteries provided the batteries are not deep discharged. Please specify output voltage if used for charging. |
| 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 - SINGLE OUTPUT (70W) | | | | |
|----------------------------|---------------|------------------------|------|---------------|
| MODELS | DC Input | DC Output | | |
| | Voltage Range | Voltage * ¹ | Amps | Voltage Range |
| IEXT/LV-12 | 11-16 | 13.8 | 5.0 | 11 - 14 |
| 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 | 18.5 | 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 |

Dimensions: IEXT
180L x 76W x 35H

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

| IEHR - SINGLE OUTPUT (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: IEHR
207L x 130W x 60H

| IEXTS - Single Output & IEXTD - Dual Output | |
|---|----------------------------------|
| 2:1 input range: | 9-18, 18-36, 36-72V |
| Output power | 32- 60W |
| Single outputs | 3.3, 5, 6.6, 10, 12, 15, 24, 30V |
| Dual outputs | ±3.3, ±5, ±12, ±15V |
| 4:1 input range: | 9.4-36, 18-72V |
| Output power | 12- 30W |
| Single outputs | 3.3, 5, 6.6, 10, 12, 15, 24, 30V |
| Dual outputs | ±3.3, ±5, ±12, ±15V |
| <i>Please contact us for further information & full specifications.</i> | |



Optional leads available (no connectors)