



Harland ProtectUPS®- Rail

Modular 10U 110VAC I/O Prewired UPS System | 7.5kVA/6kW

HPU-T-110V-6kW

Harland Simon UPS Ltd. has designed and manufactured a fully integrated 110VAC UPS system which enables the customer to fit the required number of modules to support the load and provide the sufficient battery recharge current as required.

Designed with ease of maintenance in mind the modules can be replaced quickly in the event of any failure without disruption to the load.

One design and several power options available from 1 kW to 6 kW and also available as 230VAC single phase and three phase systems.

External batteries can be fitted to support the customers critical load for a defined backup period in the event of mains failure.

Access to Switches behind Hinged Flap

AC & DC Control Panel/
Maintenance Bypass Switch

Rectifier Controller



Vented Front Cover to Cabinet

T2S Controller

2U AC/DC Rectifier Space
Expandable Power

4U DC/AC Inverter Space
Expandable Power



10U Chassis Prewired ready for Power Modules
10U x 500 mm W x 400 mm D



- » 10U x 500 mm W x 400 mm D chassis
- » 7.5kVA/6 kW maximum output power
- » 110VAC input - other voltages available
- » Optional configurations i.e. N+1
- » Prewired rack ready for modules
- » SNMP/VFC contact alarms
- » Battery monitoring options
- » High efficiency - up to 95%
- » External battery (48VDC Bus) - other voltages available
- » Network Rail approval pending





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Technical Specification

MODEL	HPU-T-110V-6kW-10U
Operating Temperature	Combined system - 20°C to +50°C
UPS Module	Modular UPS system - 10U, 7.5kVA/6kW
Battery Autonomy	5 minutes up to 24+ hours External fitted batteries
Battery Type	Lead Crystal® for cyclic/hot/outdoor or VRLA options
Battery Configuration	48vDC bus (4 x 12v blocs or 8 x 6v blocs). Other DC voltages available
Type	10U prewired chassis (500mm W x 400mm D)
Input Supply	110VAC (90 - 175VAC) 230VAC single phase & three phase options
Output Supply	110VAC (90 - 175VAC) 230VAC single phase & three phase options
EPC/Multi Mode	Flexibility; whatever the output power level the energy can be shared by both AC & DC input sources from 0 - 100% continuous clean power and high efficiency up to 95%
Cooling	Fan
Recharge	Dependant on Ah & available current - 12/24/48 hour recharge options
Display	Optional and standard display on both AC and DC controller
Alarms (customer specified)	Dry contacts on shelf network SNMP remote comms.
Visual Indications	LED Run alarm Fault LED
Transfer Performance	Maximum voltage interruption (transient free) 0 ms Total transient voltage duration (maximum) 0 ms
Short Circuit	Clear up capacity 10 x In for 20 msec (available while mains is at AC input port)
Audible Noise	<55dB
Approvals	PADS Pending System meets with conducted & radiated emission as detailed in EN55011/22 Meets with harmonic emissions detailed EN61000-3-2
Dimensions	10U x 500mm W x 400mm D (other variants available)
Remote Communication	Controller integrated within the equipment rack
Warranty	24 months standard warranty (extended warranties available)

Power Protection rail specific UPS solutions for DC & AC loads.

Low power applications for the critical back up of monitoring, diagnostic and control equipment, emergency lighting, telecom/IT networks, axle counters and level crossings.

Harland Simon UPS Ltd • Bond Avenue • Bletchley • Milton Keynes • MK1 1TJ
T: 01908 56 56 56 • E: enquiries@hsups.co.uk • W: harlandsimonups.com

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