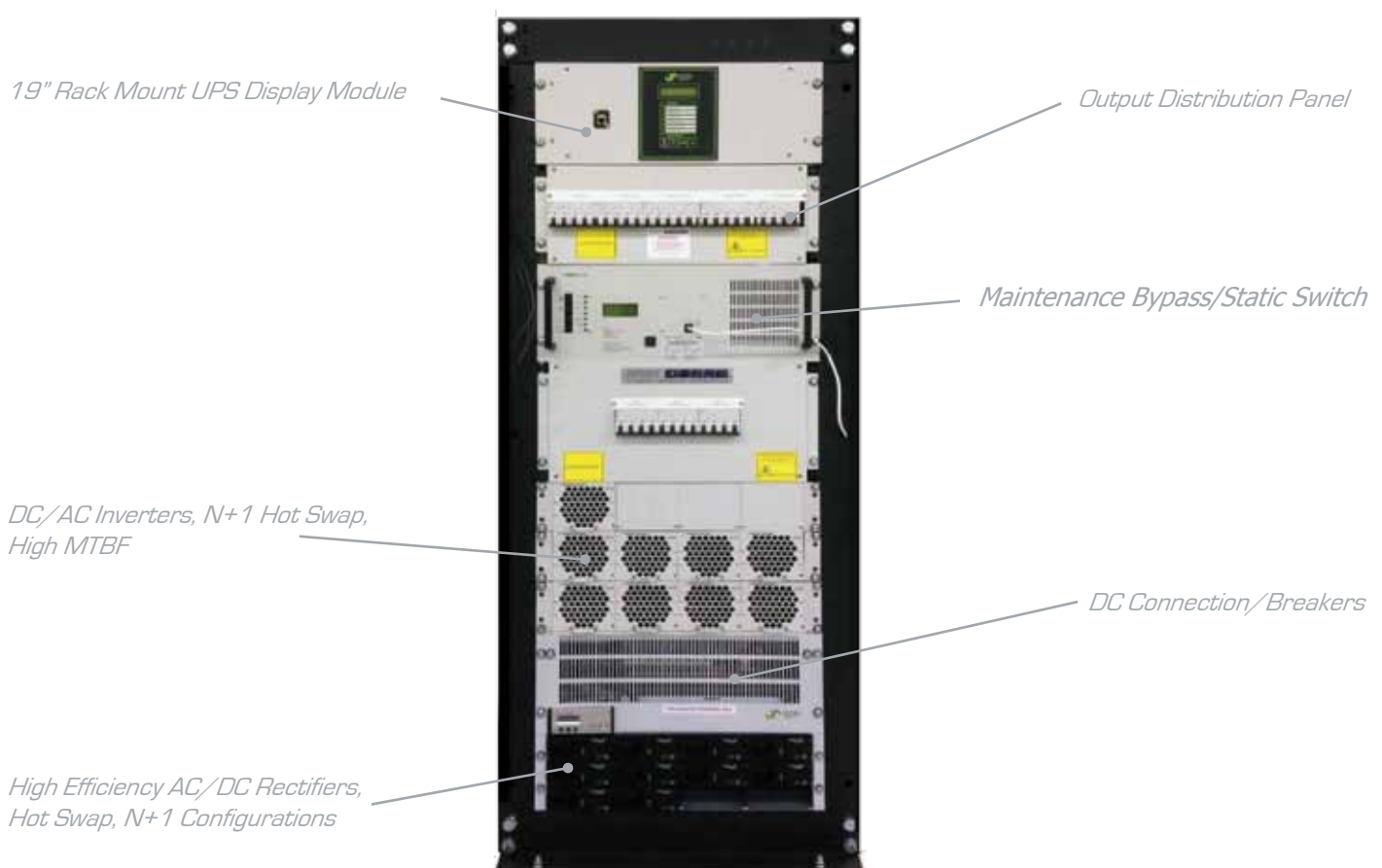




Harland ProtectUPS® - Transport Protected Uninterruptible Power

The Harland ProtectUPS® - T is a range of UPS systems designed by Harland Simon, utilising OEM equipment, integrated into a choice of enclosures i.e. open 19" rack for installing within your roadside/trackside or other outdoor enclosure or fitted within one of Harland Simon's own IP54 cabinets.



The Harland ProtectUPS® - T range is a variation of UPS systems: tower/19" rack, modular, N+1 ranging from only a few 100W to 80kVA single phase and three phase systems with much higher output capabilities designed to allow for future expansion, by simply adding additional modules.

Within our own integrated systems we can supply maintenance bypass switches, displays, distribution, alarms, battery monitoring all built to provide high efficiency, save energy, easy maintenance, high reliability which operates in environments much harsher than where conventional UPS are designed to operate.

The Harland ProtectUPS® - T includes batteries where for harsh applications we recommend using our Lead Crystal® battery technology as the battery can operate from between -40° C and +65° C.

Harland Simon is a provider of UPS Power Solutions for the Transport Sector: covering Rail, Tram, Underground, Traffic - Road, Air and Ferry providing AC UPS and batteries to provide a longer service life than conventional UPS systems.



Harland ProtectUPS® - Transport

The Range

The Harland ProtectUPS® - T for Roadside systems:

The Harland ProtectUPS® - T for roadside UPS systems range from 100W supporting outdoor CCTV/ANPR applications up to 2kW for traffic signals/traffic displays/information signs.

The UPS can be installed either in your enclosure or one of Harland Simon's, where the UPS can be rack mounted or installed on a shelf and provided with loose batteries to support various autonomies.

This range of UPS can be used to provide back up power to any AC device used in harsh environments.

UPS designed to operate from -40°C to +65°C allowing natural ventilation for cooling/battery venting so eliminating the cost of expensive air conditioning and heating



The Harland ProtectUPS® - T for Trackside systems:

Harland Simon can either supply to site a ready to install tower or rack or modular 19" UPS rack system complete with enclosure or deliver a pre-assembled UPS system in a customer specific enclosure.

Using PADS approved products where possible, but if not available, Harland Simon can help by obtaining system approval as required and with its own in-house design team who work with you to meet all specs. including the electrical and if required physical requirements too.

Harland Simon offers modular UPS systems using AC/DC rectifiers and DC/AC inverters which facilitate today's higher efficiencies; higher MTBF for easier maintenance - Hot Swap fast MTTR. The modular approach offers greater flexibility with future expansion and is often used in longer runtime applications due to the re-charging capability.



The Harland ProtectUPS® - T for Marine systems approved to IACS-E10



The DC range of power solutions includes rugged, high IP, environmental protection, high reliability and redundancy as well as compliance with the relevant standards.

- Trippers (DCT range): 24v-110v, 1-50A loads
- Chargers (DCC range): 1 or 3 phase, 1-50A loads
- Power Supplies (DCP range): 1kW-5kW, DC UPS (DCU range): 12v-270v, several hours

The AC range has been integrated to marine applications for many years with proven reliability in harsh and onerous environments.

- AC UPS/Power Supplies
- Inverters/Converters
- Ingress protection to IP54
- EE-xd rated protection
- Offshore battery packs

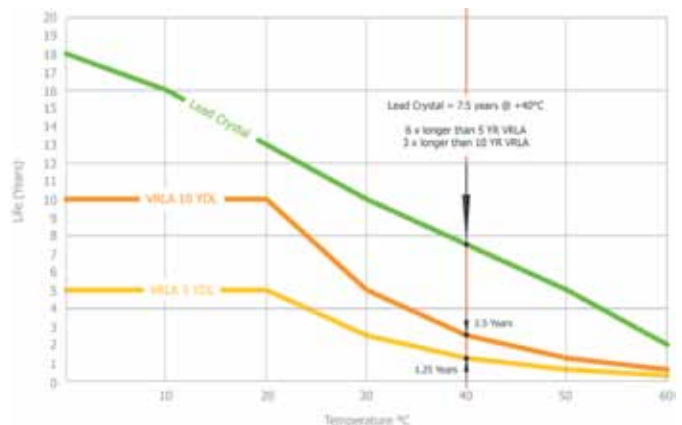
Lead Crystal® Technology

Harland Simon recommends the use of Lead Crystal® batteries in any system that will potentially be used in a non-controlled environment subjecting the batteries to very cold or very hot conditions.

The Lead Crystal® battery, due to its patented technology will provide a much longer service life than VRLA/GEL batteries if used in the same environments, simply due to its chemical make up.

At cold temperatures it does not freeze and at hot temperatures it does not dry up.

The Lead Crystal® battery is offered with a 3 year warranty.



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