



UPS SOLUTIONS

The LRT3 UPS Series

Rack Power That Fits



1U

RACK HEIGHT

650 & 1150VA

TWO CAPACITIES

<40 dBA

LOW NOISE

ENQUIRE NOW

650VA & 1150VA | 1U Rackmount | Line-Interactive Pure Sine Wave

THE LRT3 UPS

Engineered for Compact Efficiency:

Pure Sine Wave Protection in a Single Rack Unit.

1U

43 mm rack height

2

650VA and 1150VA models

<40 dBA

Low noise for shared spaces

Key Features

- **Pure Sine Wave Output:** clean, utility-grade waveform for sensitive active-PFC loads.
- **1U Compact Design:** full protection in a single rack unit, only 43 mm high.
- **Graphical LCD:** five-button navigation (ESC / UP / DOWN / ENTER / ON-OFF).
- **Programmable Outlets:** two switchable IEC C13 outlet groups.
- **Comprehensive Connectivity:** USB, RS232, communication slot, dry contact, ROO and RPO.
- **Low Noise Level:** under 40 dBA, suited to comms cupboards and offices.
- **Two Capacities:** 650VA/420W and 1150VA/770W.



The LRT3 Series is a line-interactive, pure sine wave UPS built for rack environments where every millimetre counts. At a single rack unit high it protects network switches, routers, NVRs, POS systems, edge servers and workstations without displacing the equipment it defends, while its two programmable outlet groups let you decide exactly what stays powered, and for how long.

Why Choose the LRT3?

- **Space You Get Back:** a 1U chassis leaves the rest of the rack for revenue-earning equipment.
- **Load You Control:** two programmable outlet groups allow non-critical loads to be shed so battery capacity is reserved for what matters.
- **Easy-Maintenance Batteries:** standard 6V blocks designed for straightforward replacement at end of life.
- **Wide Output Selection:** 200 / 208 / 220 / 230 / 240 V and 50 or 60 Hz to suit varied site requirements.
- **Backed by UPS Solutions:** design, supply, install and service across Australia, New Zealand and the Pacific Islands.

Built for Reliability

Dependable Protection for Everyday Critical Loads



Server Rooms



Network &
Comms



Retail & POS



Offices & Edge

- **Line-Interactive Topology:** conditions incoming mains and transfers to battery only when the supply falls outside acceptable limits, minimising battery cycling and extending service life.
- **Pure Sine Wave Output:** a true sinusoidal waveform on battery keeps active-PFC power supplies, network hardware and sensitive electronics running cleanly.
- **Stable Output Regulation:** selectable 200 / 208 / 220 / 230 / 240 V at -10% / $+6\%$, with 50 or 60 Hz output at ± 0.1 Hz.
- **Easy-Maintenance Battery Design:** standard sealed 6V blocks arranged for simple inspection and replacement.
- **Consistent 1.5A Charging:** the same charge current across the whole range for predictable recharge behaviour.
- **Quiet by Design:** a noise level below 40 dBA makes the LRT3 suitable for comms cupboards, studios and open-plan offices.
- **Rack-Ready Thermal Range:** rated for continuous operation from 0 to 35°C ambient.
- **Remote Shutdown Inputs:** ROO (Remote On/Off) and RPO (Remote Power Off) integrate the UPS with building and fire systems.

Protection that fits the rack you already have. Without compromising on waveform quality.

Typical Loads

Network switches and routers · firewalls · NVR and CCTV recorders · POS terminals · edge servers and NAS · access control and building systems · AV and control racks.



Pure Sine Wave
Output



Single Rack Unit
43 mm High

GROUP 1
Critical

GROUP 2
Sheddable

Two Programmable
Outlet Groups



Low Noise
Operation



Flexible Design

One Rack Unit, Total Control



- **True 1U Rackmount:** a 438 mm wide, 43 mm high chassis drops straight into any standard 19-inch rack.
- **Depth to Suit the Cabinet:** 363 mm on the 650VA and 509 mm on the 1150VA, so shallow comms cabinets remain an option at the lower capacity.
- **Standard IEC Connections:** an IEC C14 inlet, with four IEC C13 outlets on the 650VA and six IEC C13 outlets on the 1150VA.
- **Two Programmable Outlet Groups:** both switched groups can be configured independently, allowing non-essential equipment to be dropped on battery while critical loads run on.
- **Graphical LCD Interface:** a graphical LCD with five-button control puts operating status and settings at the front of the rack.
- **Easy-Maintenance Batteries:** 6V sealed blocks, two on the 650VA and four on the 1150VA, laid out for simple service.
- **Front-Facing Everything:** display, controls and status are all presented on the front panel, so the unit can be racked with the rear against a wall.



LRT3 front panel.
Graphical LCD and five-button control

Model	W × D × H (mm)
LRT3-650	438 × 363 × 43
LRT3-1150	438 × 509 × 43

Both models occupy a single rack unit. Confirm cabinet depth and rail positions before ordering the 1150VA model.



Outlet Configuration at a Glance

Model	LRT3-650	LRT3-1150
Input connection	1 × IEC C14	
Output receptacles	4 × IEC C13	6 × IEC C13
Switched outlet groups	2 programmable groups	

Specifying the LRT3

1. Size the load

Total the connected equipment in watts and compare against the model's watt rating, 420W or 770W, rather than the VA figure alone.

2. Count the outlets

Four IEC C13 outlets on the 650VA; six on the 1150VA. Allocate each device to the critical or sheddable group.

3. Check the cabinet

Confirm usable depth behind the front rails: 363mm or 509mm plus clearance for the IEC leads at the rear.

4. Plan the runtime

Stated backup times are at 100% load. If a longer ride-through is required, size up or shed non-critical equipment to the second outlet group.

Intelligent Management

Connectivity and Control, Built In



- **USB and RS232 Interfaces:** both are fitted as standard for direct connection to a server, monitoring appliance or console.
- **Communication Slot:** an expansion slot allows the LRT3 to be extended with additional communication options as site requirements change.
- **Dry Contact Interface:** volt-free signalling for BMS, alarm panels and third-party monitoring platforms.
- **ROO - Remote On/Off:** lets the UPS output be started and stopped from a remote control point.
- **RPO - Remote Power Off:** supports emergency shutdown of the protected load from a remote button or fire system interface.
- **Graphical LCD Display:** five-button navigation (ESC / UP / DOWN / ENTER / ON-OFF) puts configuration and status in reach without a laptop.
- **Programmable Outlet Groups:** the two switched groups are configured from the front panel, so load-shedding behaviour can be set during commissioning and revised on site.



USB



RS232



Communication Slot



Dry Contact



ROO / RPO

Interface Summary

Interface	Fitted	Typical Use
USB	Standard	Local server shutdown and monitoring software
RS232	Standard	Serial monitoring, legacy management platforms
Communication slot	Standard	Expansion for additional communication options
Dry contact	Standard	BMS, alarm panels, volt-free status signalling
ROO (Remote On/Off)	Standard	Remote start/stop of the UPS output
RPO (Remote Power Off)	Standard	Emergency shutdown of the protected load

At the Front Panel

The graphical LCD is the primary interface for the LRT3. Five buttons: ESC, UP, DOWN, ENTER and ON/OFF. Step through operating status, measurements and settings, and configure the behaviour of both programmable outlet groups, all without a laptop.

Integrating with Site Systems

Volt-free dry contacts hand UPS status to a BMS, alarm panel or third-party monitoring platform. ROO starts and stops the output remotely; RPO provides the emergency shutdown path where the rack must be isolated from a remote button or fire system interface.

The LRT3 Range

Two Capacities, One Rack Unit



Model	LRT3-650	LRT3-1150
Capacity (VA / W)	650 / 420	1150 / 770
Form factor	1U rackmount	
Technology	Line-interactive, pure sine wave	
Output receptacles	4 × C13	6 × C13
Battery configuration	2 × 6V 9Ah	4 × 6V 9Ah
Typical backup @ 100% load	2.4 min	4.6 min
Charge current	1.5 A	
Operating temperature	0 to 35°C	
Dimensions W × D × H (mm)	438 × 363 × 43	438 × 509 × 43

Backup times are stated at 100% resistive load with new, fully charged batteries at 25°C. Actual runtime depends on load, battery age and ambient temperature. Lightly loaded systems will run considerably longer than the figures above.

Choosing the Right Model

LRT3-650

Shallow comms cabinets. A single switch, router and modem, or a small POS counter. The shorter chassis at 363 mm deep, with four outlets.

LRT3-1150

Mixed racks with six devices to protect: switches, NVR, firewall and a small server, where outlet count matters as much as capacity.

Planning for Runtime

The published backup times are worst-case figures, measured at a full 100% resistive load. Real racks rarely run at full capacity, and a lightly loaded LRT3 will hold up considerably longer. Where the objective is a clean, controlled shutdown, or riding through the brief interruptions that make up the majority of mains events, these runtimes are typically more than sufficient.

Where a longer ride-through is needed, the practical levers are load and layout: move non-essential equipment to the second outlet group so it can be shed on battery, or step up to a larger model in the range. UPS Solutions can review your load schedule and recommend the right configuration.

Both models share the same line-interactive pure sine wave topology, the same 1.5A charge current, the same graphical LCD and the same communication set, so behaviour, commissioning and monitoring stay consistent across both units.

Technical Specifications

LRT3 Line-Interactive UPS Series



RATING	LRT3-650	LRT3-1150
VA / W	650VA / 420W	1150VA / 770W
GENERAL		
Form	Rack 1U	
Technology	Line-Interactive Pure Sinewave	
Display	LCD graphical display with 5 buttons (ESC / UP / DOWN / ENTER / (ON-OFF))	
OUTPUT		
Output voltage	200 / 208 / 220 / 230 / 240 V (−10 / +6 %)	
Output frequency	50 / 60 Hz ±0.1 Hz	
Waveform	Pure sinewave	
CONNECTIONS		
Input	IEC C14	
Output	4 × IEC C13	6 × IEC C13
Switched outlet groups	2 outlet groups	
BATTERY		
Battery (easy maintenance)	2 × 6V 9Ah	4 × 6V 9Ah
Typical backup time @ 100% load	2.4 min	4.6 min
Charge current	1.5 A	
COMMUNICATION		
Communication ports	USB, RS232, communication slot, dry contact, ROO, RPO	
ENVIRONMENT		
Operating temperature	0 to 35°C	
Noise level	< 40 dBA	
PHYSICAL		
Dimensions W × D × H (mm)	438 × 363 × 43	438 × 509 × 43

* Due to continuous product improvement programs, specifications are subject to change without notice.

Backup times are approximate, measured with new fully charged batteries at 25°C under 100% resistive load, and may vary by $\pm 5\%$ due to manufacturing variance between individual batteries.

Rack rails, extended service agreements and site installation are available on request.

Contact UPS Solutions to confirm the right capacity for your load profile and cabinet depth.

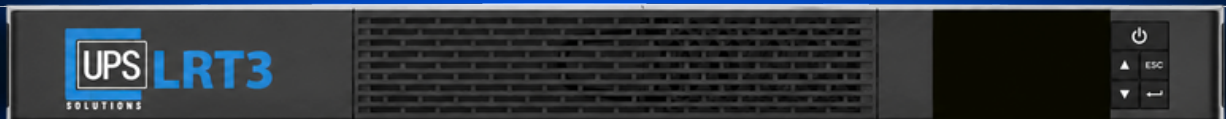


UPS SOLUTIONS

CRITICAL POWER & COOLING

DESIGN | SUPPLY | INSTALL | SERVICE
SERVICING AUSTRALIA, NEW ZEALAND & PACIFIC ISLANDS

Reach out today to discover how the LRT3 Line-Interactive
UPS Series can protect your rack.



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