

Vertiv™ Liebert® GXT5 Lithium-Ion 5-10KVA UPS

Guide to Output Power Distribution – 230v Applications



A Vertiv Application Brief

Overview

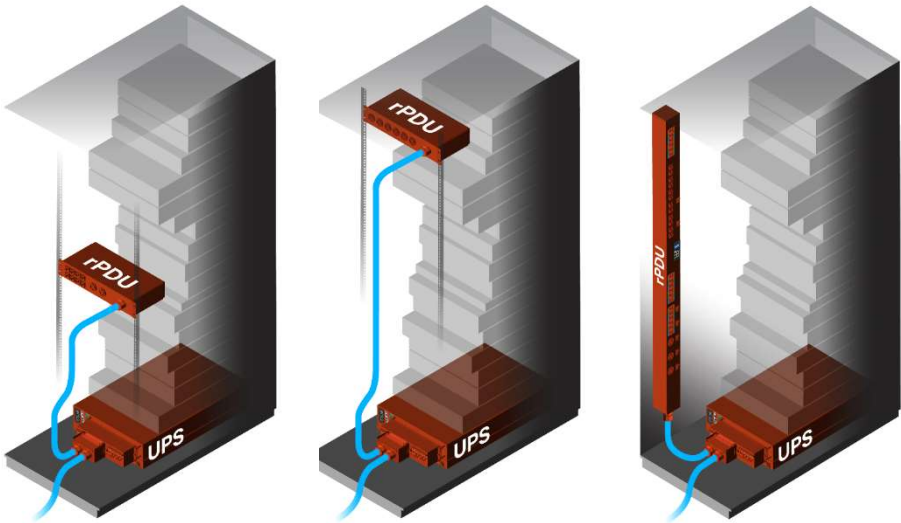
The Liebert® GXT5 Lithium-Ion double conversion online UPS provides the highest level of power conditioning and battery backup in a high power-density rack mounted UPS.

This high-density design allows for more power capacity and runtime in less rack space however it does require that we change how we think about power distribution.

GXT5LI GV models are hardwire input and output only.

GXT5 Lithium-Ion models typically use rPDUs to connect loads. This approach saves rack space and reduces excess cabling within the rack.

High Power Density in a Compact Form Factor



rPDUs (Rack Power Distribution Units) are designed to be mounted in the rear of a four-post rack, either horizontally or vertically, behind existing equipment. This allows for flexible power distribution that occupies no additional rack-space. In a two-post rack they would be flush mounted.

GXT5LI 5-10kVA 230v models are hardwired in and out. The hardwired rPDUs can then be installed into either the same rack as the UPS or an adjacent rack. This minimizes excess cabling while providing great flexibility.



GXT5 Lithium-Ion UPS

GV Models: 200-240V Global Voltage 3 Wire Input/Output – L1, L2, G or L1, N, G

UPS Model	Power Rating	Input	Output
GXT5LI-5000GVRT3UXLN	5000VA / 5000W	Hardwired	Hardwired
GXT5LI-6000GVRT3UXLN	6000VA / 6000W	Hardwired	Hardwired
GXT5LI-8000GVRT3UXLN	8000VA / 8000W	Hardwired	Hardwired
GXT5LI-10KGVRT3UXLN	10000VA / 10000W	Hardwired	Hardwired

rPDU and UPS Specifications

Hardwire Input/Output UPS



rPDU Models

Model	Form Factor	Type	Input	Output
VP0G7200 (Coming Sept 2024)	Horizontal	Basic	Hardwired (L, N, G)	(8) U-Lock C19
Model	Form Factor	Type	Input	Output
VP4G7006 (Coming Sept 2024)	Vertical	Monitored	Hardwired (L, N, G)	(4) IEC U-Lock C19 (36) C13/C19 Combo

rPDU Basic Specifications

Model	Input	Output Breakers	Physical
VP0G7200 (Coming Sept 2024)	Hardwired (L, N, G)	(4) 16A Double Pole Magnetic	2U - 86mm x 432mm x 203mm
Model	Input	Output Breakers	Physical
VP4G7006 (Coming Sept 2024)	Hardwired (L, N, G)	(2) 20A Double Pole Magnetic	1683mm x 51mm x 66mm

GXT5 Lithium-Ion Wiring Specifications

UPS Model	Recommended Panel Feeder Breaker	Recommended Wire Size	Maximum Wire Size	Input Breaker	Output Breaker	Bypass Breaker
GXT5LI-5000GVRT3UXLN	50A	10 mm ² (8 AWG)	25mm ² (4 AWG)	50A	50A	50A
GXT5LI-6000GVRT3UXLN	50A	10 mm ² (8 AWG)	25mm ² (4 AWG)	50A	50A	50A
GXT5LI-8000GVRT3UXLN	63A	16 mm ² (6 AWG)	25mm ² (4 AWG)	60A	60A	60A
GXT5LI-10KGVRT3UXLN	80A	25mm ² (4 AWG)	25mm ² (4 AWG)	70A	70A	70A



For more detailed information please refer to the Installer User Guide for your specific model UPS. These documents and more can be found at [Vertiv.com](https://www.vertiv.com)

GXT5 Lithium-Ion Rear Panel

All GXT5LI 5-10kVA GV models are hardwire input and hardwire output. They require an electrician for installation.

GXT5LI 5-10kVA UPS



Hardwire
Input from
Utility

Hardwire
Output to rPDU



VP0G7200 rPDU

Shallow depth 2U enclosure allows for mounting at the front of the rack or behind other existing in the rear of the rack

(36) Combo
C13/C19
Outlets

(4)
U-Lock C19
Outlets

Monitoring
Card

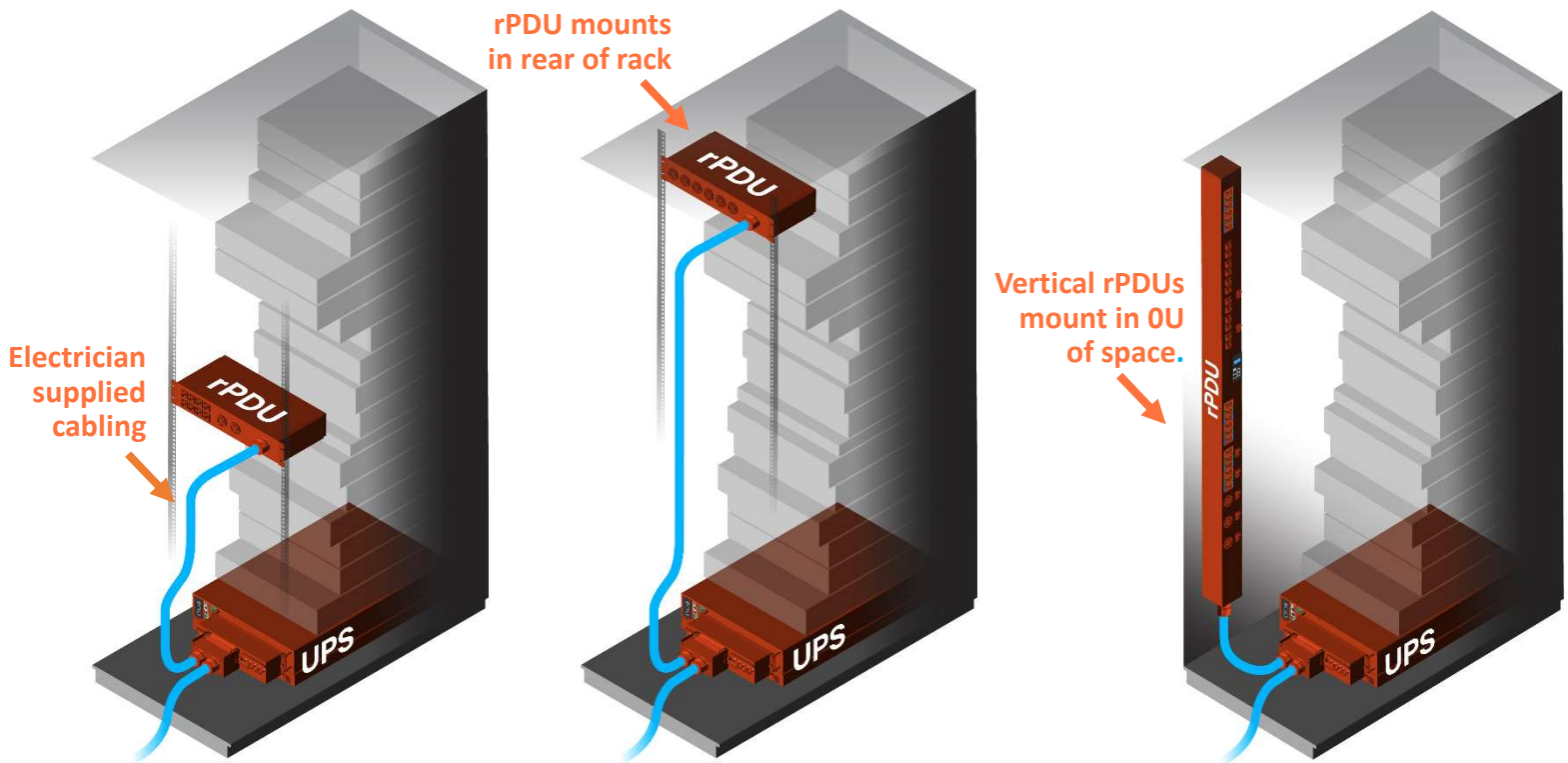
VP4G7006 Vertical rPDU

Features 36 Combo C13/19 in 6 banks of 6 color coded outlets for easy identification in addition to 4 U-Lock C19 outlets. Integrated monitoring card makes it easy to monitor and manage.

Hardwired
Input



Flexible rPDU Mounting Options



Vertiv rPDUs offer flexible mounting options for both 2 and 4 post racks.

In a 4 post rack, the horizontal model (model VPOG7200) can easily be mounted behind existing equipment in the same U space.

For additional rPDU mounting options, refer to the [Vertiv Geist Rack PDU Accessory Brochure](#)

