VERTIV.

Product brochure

Vertiv™ Liebert® GXT MTX+ CB 6kVA

High performance power protection for critical application



High-performance power protection for critical operations

A wide input voltage range can affect power stability and usable capacity for connected loads. Maintaining stable output while balancing efficiency and equipment protection is a key consideration in mission-critical environments.

The Vertiv™ Liebert® GXT MTX+ CB 6 kVA provides power protection using a double-conversion online topology with zero transfer time, supporting continuous and stable power under varying input conditions.

The unity output power factor (PF=1.0) of the Vertiv Liebert® GXT MTX+ CB 6 kVA allows more equipment to be connected within the same rated capacity. An inbuilt isolation transformer protects sensitive loads by addressing ground loops and reducing electrical noise.

Its common battery feature allows multiple Uninterruptible Power Supply (UPS) units operating in a parallel configuration to share a single battery bank. This design supports more efficient use of available space and simplifies battery deployment in larger configurations.

Product highlights



Vertiv™ Liebert® GXT MTX+ CB 6kVA

- **Unity output power factor (1.0)**
- **Efficiency up to 91% (230 VAC, full load, with isolation transformer)**
- **Inbuilt isolation transformer**
- **High-capacity 8A battery charger**
- **Common battery configuration**
- **SNMP and Modbus (RS485) connectivity**

Applications



Manufacturing



Critical laboratory equipment



Automation



Transportation and infrastructure facilities

Key product features:

- Maintain stable operation under wide input conditions with IGBT-based rectifiers, double-conversion online topology and zero transfer time
- Support more connected load within the same UPS capacity with unity output power factor (PF=1.0)
- Protect sensitive loads from ground loops and electrical noise with an inbuilt isolation transformer
- Simplify battery deployment and optimize space efficiency through common battery support for parallel configurations
- Achieve up to 91% operating efficiency (230 VAC, full load, with isolation transformer)
- Recharge batteries faster with an 8A charger
- Maintenance bypass switch for service access
- View UPS status and manage settings through an intuitive LCD interface
- Intelligent monitoring through SNMP and Modbus connectivity

Rear panel connections and controls

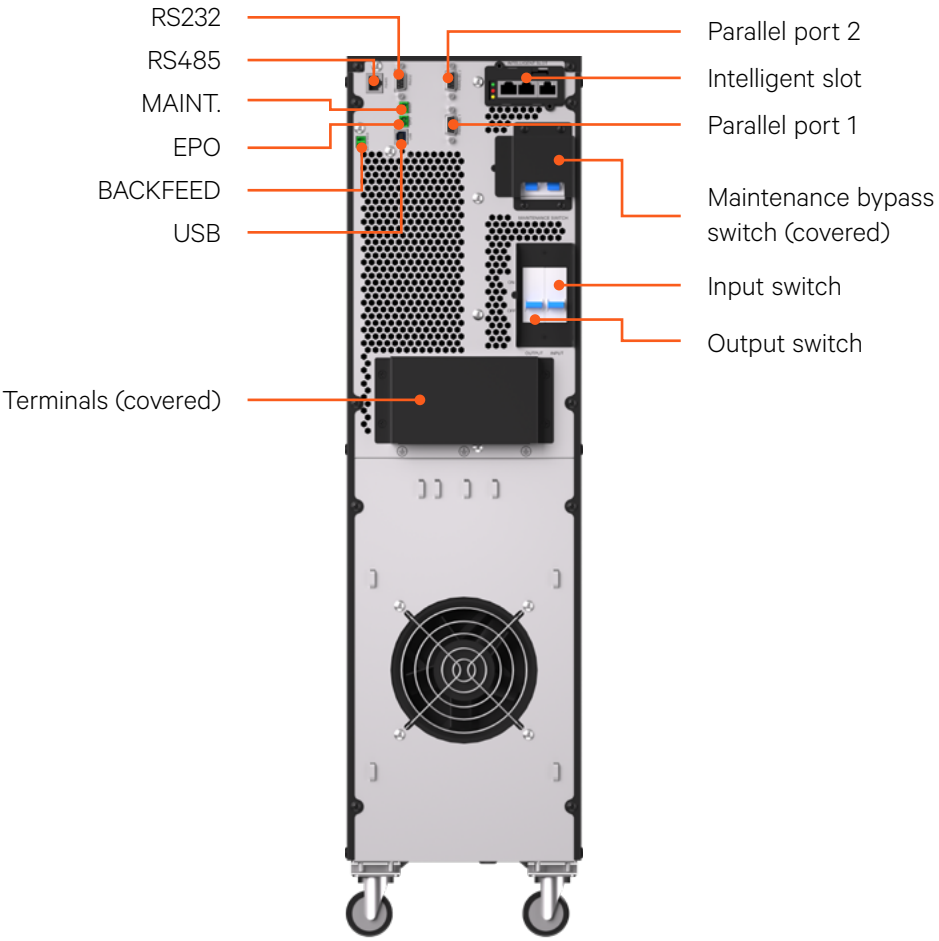
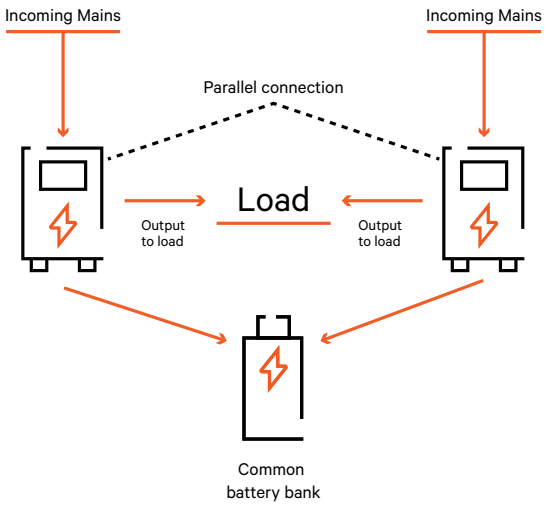


Figure 1: Rear panel view of the Vertiv™ Liebert® GXT MTX+ CB 6kVA

Space-efficient battery architecture

The common battery feature of the Vertiv™ Liebert® GXT MTX+ CB 6 kVA enables multiple UPS units operating in a parallel configuration to share a single battery bank. This architecture reduces the number of individual battery sets required, supporting a more cost-effective deployment, improved space utilization, and simpler battery maintenance.

By consolidating backup resources, the configuration supports efficient battery usage while maintaining full redundancy for critical loads. It is well suited for larger installations that require centralized battery management and the ability to scale as system requirements change.



Specifications

Model		Vertiv™ Liebert® GXT MTX+ CB 6kVA
Power Rating (VA/W)		6000 VA / 6000W
Input		
Nominal voltage		208/220/230 (default) / 240 VAC
Input voltage range		110-300 VAC (based on load at 50%) / 176-300 VAC (based on load at 100%)
Frequency range		40-70 Hz
Phase		Single phase with ground
Power factor (PF)		≥ 0.99 at nominal voltage (100% load)
Output		
Output voltage		208/220/230 (default) / 240 VAC
Output power factor		1
AC voltage regulation		±1%
Frequency range (synchronized)		50 / 60Hz ± 0.1% on standalone mode / 50 / 60Hz ± 0.25% on parallel mode
Frequency range (battery mode)		50 / 60Hz ± 0.1%
Current crest ratio		3:1
Harmonic distortion		≤ 2 % THD (linear load); ≤ 5 % THD (non-linear load)
Transfer time	AC mode to battery mode	Zero
	Inverter to bypass	Zero
Waveform		Pure sinewave
Overload capability	Mains mode	105%~110%, lasts 1 hour / 110%~125%, lasts 10 minutes 125%~150%, lasts 1 minute / >150%, lasts 0.2 seconds, then switches to bypass
Dynamic response recovery time		<20 ms
Isolation transformer		Inbuilt at output side
Output MCB		Available
Maintenance bypass switch		Inbuilt
Parallel feature		Yes, up to 4 units can be paralleled
Efficiency		
AC mode (with transformer)		Up to 91%
Battery mode (with transformer)		Up to 90%
Battery		
Battery numbers		16 ~ 20 [± 96/108/120Vdc (3 wire system)]
Charging current		Up to 8A
Charging voltage		Average charging voltage default 2.3V(20pcs battery-276V) can be set as 2.30-2.35; Floating charging voltage default 2.25V(20pcs battery-270V) can be set as 2.20-2.29
Common battery bank		Yes, for UPS connected in parallel configuration
Physical		
Long-run model (external battery)	Dimension, DxWxH (mm)	460 x 191 x 720
	Net weight (kg)	45.5 kg
Environment		
Operating temperature		0 - 40°C
Humidity		0-95 % RH (non-condensing)
Noise level		Less than 50dB
Management		
Smart RS-232 and USB		Inbuilt for local monitoring
RS485 port		Inbuilt for Modbus
EPO		Available
SNMP port		Inbuilt for network monitoring



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