

Vertiv Liebert GXE2 6-20 kVA

0.9 output-power-factor family | English technical selection guide

Online UPS with color LCD and configurable communications. The 15/20 kVA family supports parallel configurations up to three units (2+1). This technical edition organizes the model choices and specifications from manual V1.1; it does not replace installation, commissioning, operating or safety instructions.

Rating	Output kW	Model / configuration
6 kVA	5.4	GXE-06k00TL1102C00 long-backup; GXE-06k00TE1102C00 standard
10 kVA	9	GXE-10k00TLA102C00 long-backup; GXE-10k00TEA102C00 standard
15 kVA	13.5	GXE-15k00TL3102C00 three-phase input/single-phase output; GXE-15k00TL3302C00 three-phase input/output
20 kVA	18	GXE-20k00TL3102C00 three-phase input/single-phase output; GXE-20k00TL3302C00 three-phase input/output

Input

Parameter	Specification
6 kVA input	220/230/240 V single-phase
10 kVA input	220/230/240 V phase voltage or 380/400/415 V line voltage
15/20 kVA input	380/400/415 V line voltage
Input phase-voltage range	176-288 V at full load; linear derating at 100-176 V, to half load at 100 V
Frequency	50/60 Hz nominal; 40-70 Hz input range
Input power factor	≥0.99 full load; ≥0.98 half load. Exception: 10 kVA, three-phase input/single-phase output: ≥0.95 full load.

GXE2 | output and transfer performance

Output

Parameter	Specification
Output voltage	6/10 kVA: 220/230/240 V single-phase; 15/20 kVA: single-phase 220/230/240 V or three-phase 380/400/415 V
Output power factor	0.9
Synchronization window	Default ±3 Hz; adjustable ±0.5 to ±5 Hz
Frequency slew rate	Default 0.5 Hz/s; single unit 0.2/0.5/1 Hz/s; parallel 0.2 Hz/s
Crest factor / voltage THD	3:1 / <2% linear load, <5% nonlinear load
Transient recovery	60 ms for 6/10 kVA; 40 ms for 15/20 kVA
Overload at 25°C	105-125%: 10 min; 125-150%: 1 min; 150%: 200 ms (source threshold wording)
Bypass upper voltage limit	Default +20%; selectable +10/+15/+20%
Bypass lower voltage limit	Default -40%; selectable -10/-20/-30/-40%
Utility/battery transfer	0 ms
Inverter/bypass transfer	Synchronized: 0 ms; asynchronous: default ≤20 ms, configurable 40/60/80/100/200 ms
Online efficiency	Up to 95% (6/10 kVA); up to 95.5% (15/20 kVA)

GXE2 | battery and mechanical parameters

Parameter	6 kVA	10 kVA	15/20 kVA
Battery type	12 V, 9 Ah VRLA	12 V, 9 Ah VRLA	12 V, 9 Ah VRLA
Blocks per battery string	16/18/20; default 16	16/18/20; default 16	32/36/40; default 32
DC voltage (V)	192-240	192-240	384-480
Maximum charge current (A)	Long ≤5; standard ≤2	Long ≤8; standard ≤4	≤13
W x D x H (mm)	160 x 400 x 350	160 x 500 x 420	160 x 530 x 420
Net / gross weight (kg)	10.9 / 13.9	16.10 / 19.4	23.5 / 25.2
Noise (dB)	<55	<55	<58

Dimensions and weights are the UPS-unit figures in the source technical table; battery-cabinet dimensions/weights are separate. Confirm the full supplied assembly for transport and installation.

Environment and compliance references

Parameter	Specification
Operating temperature	0-50°C; capacity factor 0.7 at 50°C
Storage	-40 to 70°C without batteries; -25 to 55°C with batteries
Humidity	5-95% RH, non-condensing
Altitude	≤2000 m; derate above 2000 m per the source reference IEC 62040-3:2011
Display / protection	Color LCD / IP20
Safety / EMC / harmonics	IEC/EN 62040-1 / IEC/EN 62040-2 / IEC/EN 61000-3-12
Surge references	IEC/EN 61000-4-5; IEEE/ANSI C62.41, 6 kV

Source and edition notes

Independently prepared English technical edition by IWELL, 22 October 2026. This is not an official Vertiv English publication. Specifications refer to the cited source revision; confirm the exact model and supplied configuration before selection.

Source: GXE2-6-20kVA-User-Manual-ZH.pdf

Manufacturer source: https://www.vertiv.com/491122/globalassets/products/critical-power/uninterruptible-power-supplies-ups/gxe2/vertiv-31013816_liebert-gxe2-6kva~20kva-ups_v1.1-um-zs-cn.pdf

Source: GXE2 manual V1.1, model configuration descriptions and technical tables on printed pages 11-12. The unchanged 94-page original manual remains included. This edition does not infer specifications from later GXE2 upgrades.