

Technical specifications: 3:1 and 3:3

Rated power (kVA/kW)	10/8 (3:3 only)	15/12	20/16	30/24	40/32			
Normal AC supply input								
Input voltage (V)	380/400/415 V (three-phase + neutral)							
Frequency (Hz)	Synchronized to mains							
Input power factor	> 0.98 at load > 50%							
THDI	< 5% at full load							
Input voltage tolerance utility operation	304 V to 477 V at full load, 200 V to 477 V at half load (for 400 V)							
Dual mains input	Yes							
Input voltage tolerance bypass	+10% standard +4, 6, 8, 10% (programmable)							
Backfeed protection	Built-in backfeed contactor							
Output								
Nominal output voltage (V)			3:1 (220/230/240 V)					
			3:3 (380/400/415 V) three-phase + neutral					
Efficiency at full load (AC-AC at nominal mains)	94.5%	95.8%	95.5%	95.8%	96.0%			
Efficiency at 50% load (AC-AC at nominal mains)	94.7%	95.3%	95.7%	95.6%	95.5%			
DC-AC nominal battery voltage	94.1%	95.1%	94.9%	95.2%	95.0%			
Load power factor	0.5 leading to 0.5 lagging							
Output frequency	Mains synchronized in normal operation 50 Hz + 0.05% free-running							
Overload capacity utility operation	125% for 10 minutes, 150% for 60 seconds							
Overload battery utility operation	150% for 60 seconds							
V THD	< 2% from 0 to 100% linear load, < 3.5% full nonlinear load							
Output voltage tolerance	+/-1% static, +/-5% at 100% load step							
Communication and management								
Communication interface	Network management card with environmental monitor							
Control panel	Power view multi-function LCD, status, and control console							
Emergency power off	Yes							
Dimensions and weights								
Dimensions (H x W x D) narrow tower	1,490 x 352 x 838 mm				N/A			
Dimensions (H x W x D) wide tower	1,490 x 523 x 838 mm							
Weight (kg) — narrow tower	214 (3:3 only)	402			N/A			
Weight (kg) — wide tower	443 (3:3 only)	472			656 662			
Protection								
Surge	IEC 61000-4-5							
Thermal, short circuit	Yes							
Regulatory								
Safety	IEC/EN62040 1-1							
EMC/EMI/RFI	EN50091-2, IEC 62040-2							
Approvals	ANSI, IEEE							
Environmental								
Operation temperature	0 to 40 °C							
Storage temperature	-15 to 45 °C							
Relative humidity	0 to 95% noncondensing							
Operating elevation	0 to 1,000 m							
Storage elevation	0 to 15,000 m							
Maximum audible noise at 1 m from unit	< 43.3 dBA at < 70% load, < 51.3 dBA at 100% load				< 46.2 dBA at < 70% load, < 55.0 dBA at 100% load			
Protection class	IP51							