

## Technical specifications: 3:1 and 3:3

Rated power (kVA/kW)	10/8 (3:3 only)	15/12	20/16	30/24	40/32
<b>Normal AC supply input</b>					
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				
<b>Output</b>					
Nominal output voltage (V)	<b>3:1</b> (220/230/240 V)				
	<b>3:3</b> (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%	95.5%	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 non-linear load				
Output voltage tolerance	+/-1% static, +/-5% at 100% load step				
<b>Communication and management</b>					
Communication interface	Network management card with environmental monitor				
Control panel	Power view multifunction LCD, status, and control console				
Emergency power off (EPO)	Yes				
<b>Dimensions and weights</b>					
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	
<b>Protection</b>					
Surge	IEC61000-4-5				
Thermal, short circuit	Yes				
<b>Regulatory</b>					
Safety	IEC/ EN62040 1-1				
EMC/EMI/RFI	EN50091-2, IEC 62040-2				
Approvals	ANSI, IEEE				
<b>Environmental</b>					
Operating temperature	0 to 40 °C				
Storage temperature	-15 to 45 °C				
Relative humidity	0 to 95% non-condensing				
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, < 51.3dBA at 100% load			< 46.2 dBA at < 70% load, < 55.0dBA at 100% load	
Protection class	IP51				