

Technical specifications

Rated power (kVA/kW)	20/18	30/27	40/36	60/54	80/72	100/90	120/108
Input voltage	250 V ¹ to 470 V, three-phase						
Normal and bypass AC inputs	separate, common in option						
Frequency	45 – 66 Hz						
Input power factor	> 0.99						
THDI	< 3% full load						
Input voltage range	(380 V, 400 V, 415 V) +/- 10%						
Frequency	50/60 Hz +/- 10%						
Phase to phase output voltage	380/400/415 V, three-phase + neutral						
Load power factor	0.9						
Output frequency	50/60 Hz +/- 0.1%						
Overload capacity utility operation	125% for 10 minutes; 150% for 60 seconds						
Output voltage regulation	+/- 1%						
Voltage distortion (THD)	< 2% phase-to-phase and phase-to-neutral for nonlinear loads						
Output voltage tolerance	+1% static, +/- 2% at 100% load step						
Efficiency at full load AC/AC at 100% load	Up to 94%						
ECO mode	up to 97% ²						
Control panel	Multifunction LCD, status, and control console						
UPS without battery (H x W x D)	1900 x 712 x 850 mm						
UPS with internal battery (H x W x D)	1900 x 1112 x 850 mm						
Weight (UPS without battery)	400 kg			520 kg			
UPS with transformer dimensions	1900 x 1190 x 850 mm			1900 x 1265 x 850 mm			
UPS with transformer weight	705 kg			1045 kg			
Battery cabinet narrow (H x W x D)	1900 x 712 x 850 mm, weight 135 kg						
Battery cabinet wide (H x W x D)	1900 x 1012 x 850 mm, weight 150 kg						
Auxillary cabinet narrow (H x W x D)	1900 x 712 x 850 mm, weight 135 kg min.						
Auxillary cabinet wide (H x W x D)	1900 x 1012 x 850 mm, weight 150 kg min.						
Auxillary cabinet 475 mm with isolation transformer, up to 60 kVA (H x W x D)	1900 x 475 x 850 mm, weight 118 kg min., 305 kg max.						
Auxillary cabinet 550 mm with isolation transformer, 80 – 120 kVA (H x W x D)	1900 x 550 x 850 mm, weight 118 kg min., 527 kg max.						
Parallel system bypass (wallmounted or cabinet configuration) (H x W x D)	1000 x 800 x 303 mm min., 1900 x 1010 x 850 mm max., weight 71 kg min., 280 kg max.						
Safety	IEC 62040-1, EN 62040-1						
EMC/EMI/RFI	IEC 62040-2, EN 62040-2						
Approvals	CE, TÜV						
Operating temperature	0 to 40 °C ³						
Storage temperature	-20 to 45 °C						
Relative humidity	0 – 95% noncondensing						
Operating elevation	0 – 1000 m						
Storage elevation	0 – 12,000 m						
Max. audible noise at 1 m from unit	55.5 dBA			61.4 dBA		60.2 dBA	