Technical specifications

	Symmetra PX 96 kW	Symmetra PX 160 kW
Input		
Grid system	3P + N + G	
Voltage range	340 - 477 V @ full load	
Frequency	50 Hz	
Frequency range	40 - 70 Hz with 10 Hz/s slew rate	
Power factor (PF)	> 0.99 at load > 25%, > 0.95 at load > 15%, > 0.90 at load > 10%	
I thd (full load)	< 5%	
Nominal input current	154 A @ 380 V, 146A @ 400 V, 141 A @ 415 V	256 A @ 380 V, 243 A @ 400 V, 234A @ 415 V
Maximum input current	(Continuous, at 340 V mains voltage) 175 A @ 380 V, 400 V, or 415 V	(Continuous, at 340 V mains voltage) 290 A @ 380 V, 400 V, or 415 V
Maximum input short-circuit level	30 kA	
Ouput		
Power rating	96 kW	160 kW
Grid system	3P + N + G	
Voltage (nominal)	380 V/400 V/415 V	
Nominal output current	147 A @ 380 V, 139 A @ 400 V, 134 A @ 415 V	243 A @ 380 V, 231A @ 400 V, 223 A @ 415 V
Frequency	50/60 Hz bypass synchronized, 50/60 Hz +/-0.1% free running	
Synchronized slew rate	Programmable to 0.25, 0.5, 1, 2, 4, 6Hz/s	
Overload (normal and battery operation)	Normal: 150% for 60 seconds, 125% for 10 min, 100% continuous, Battery: 150% for 60 seconds	
V thd	< 2% from 0 to 100% linear load, < 6% full non-linear load according to IEC/EN 62040-3	
Load PF	From 0.5 leading to 0.5 lagging without any derating	
Bypass		
V nominal	380 V/400 V/415 V	
Voltage (range)	+/-10% (from selected voltage)	
Frequency (nominal)	50/60 Hz	
Frequency (range)	+/-0.1 Hz, +/-3 Hz, +/-10 Hz (user-selectable)	
Nominal input current	147 A @ 380 V, 139 A @ 400 V, 134 A @ 415 V	243 A @ 380 V, 231 A @ 400 V, 223 A @ 415 V
Maximum overload input current (125% continuous)	184 A @ 380 V, 174 A @ 400 V, 167 A @ 415 V	304 A @ 380 V, 289 A @ 400 V, 278 A @ 415 V
Efficiency		
AC–AC at nominal mains	≥ 95% at 35% - 100% load, ≥ 90% @ 15% - 34% load	
DC–AC at nominal battery voltage	≥ 94% at 25% - 100% load, ≥ 90% @ 15% - 24% load	
Mechanical		
Dimensions (HxWxD)	1,991 x 1,200 x 1,080 mm	1,991 x 1,800 x 1,080 mm
Weight	1,814 kg	2,806 kg
Environmental		
Storage temperature, UPS and batteries	-15 to 40 °C with batteries, approximately 6 - 8 months @25 °C battery self discharge, 1 - 2 months @ 45 °C	
Operating temperature*	0 to 40 °C (32 to 104 °F)	
Full load loss at nominal mains (BTU)	17,244 BTU/hr	28,729 BTU/hr
Regulatory compliance		
CE, EN/IEC 62040-1-1, EN/IEC/UL 60950-1, EN 50091-2/IEC 62040-2 (class A), FCC15A, EN/IEC 62040-3		

*For optimum battery life, the operating temperature range is 18 to 27 °C (64 to 80 °F).