



CLEANSOURCE® XT SMS UPS SINGLE MODULAR UPS

60Hz | 250kW | 480V
FLYWHEEL TECHNOLOGY



PRODUCT SPECIFICATIONS

RATING		
Maximum kVA		275
Maximum kW		250
INPUT		
Voltage ¹	480 VAC 3-phase, 3-wire plus ground	
Voltage Range	+10% / -15% (programmable)	
Frequency ²	60 Hz +/- 10% maximum (programmable) +/- 3% (default)	
Power Factor	0.99 at rated load and nominal voltage	
Harmonic Current Distortion	Linear load	<2% at 100% load
	Non-linear	<8% at 100% load
Current – Nominal (480 VAC)	312A	
Current – Max. Continuous	400A	
Current – Max. Non Continuous	420A	
Surge Withstand	Meets IEEE 587/ANSI C62.41	
Walk-in	1 to 15 seconds (programmable)	
Internal Back Feed Protection	Yes	
OUTPUT		
Voltage	480 VAC 3-phase, 3-wire plus ground	
Voltage Regulation	Steady State	+/-1% for +/-10% input
	Flywheel Mode	+/-1% steady state
	Transient	+/-1% within 50 mSec for 100% load step
Voltage Distortion ³	<1% linear loads and <5% for 100% non-linear loads	
Inverter	PWM with IGBT switching	
Frequency	60Hz (mains synchronized) (normal operation +/- 0.2% free running)	
Load Power Factor Range	0.7 lagging / 0.9 leading without derating	
Slew Rate	Adjustable from 0.2Hz/second to 3.0Hz/second	
Current – Nominal (480 VAC)	331A	
Overload Capability-Mains Operation	Cont:	105%
	10 min:	<110%
	5 min:	<125%
	1 min:	<150%
	10s:	<200%
Immediate:	>200%	
UPS Efficiency ³	98%	

ENERGY STORAGE		
Type	Integrated Steel Flywheel spinning at 10,000RPM	
Flywheel Run Time (% Load)	100%:	24.5s
	75%:	32s
	50%:	47s
	25%:	84s
Flywheel Recharge Time	<3 min (nominal) at 65kW	
GENERAL DATA		
Source Input	Single or Dual	
Parallel Capability	Yes, up to 8 systems	
Internal Static Bypass	Included	
Display	10-inch Color Touch Screen Graphical Display	
Withstand Capability ⁴	65kA	
Remote Monitoring	Yes (optional)	
External Customer Contacts	8 Input and 8 Outputs (programmable)	
ENVIRONMENTAL		
Audible Noise	<70 dBA at 1 meter	
Temperature	Operating	32 to 104° F (0 to 40°C)
	Storage	-13 to 158° F (-25 to 70°C)
Humidity	5% to 95% (non-condensing)	
Altitude	Up to 3,000ft (914m) 1.2°C derating for every 1,000ft above 3,000ft	
Emissions and Immunity	FCC Class A, Subpart J of Part 15/ EN 62040-2	
PHYSICAL DATA		
Height	78.0in/1,981mm	
Width	58.6in/1,488mm	
Depth	34.1in/865mm	
Weight	4,598.8lbs/2,086kg	
Cable Entry	Top or Bottom	
SAFETY		
UL/cUL 1778 and CAN/CSA 22.2 No.107.1 Listed		

¹ From grounded WYE source, 4 wire optional

² 50Hz available

³ Energy storage offline

⁴ Design per UL891 (w/o maint. bypass)



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