



CleanSource® UPS is the most reliable and energy efficient Uninterruptible Power Supply solution available today. Our flywheel-based systems provide enough power to ride through transients and allow time to bridge to a generator. Because Active Power systems are always working for you, they provide advanced power conditioning features and operate at up to 98% energy efficiency.

900 CLEANSOURCE UPS

battery-free energy storage

high reliability

60

Hz

98%

efficiency

130

150

300

600

900

kVA

1200

SYSTEM FEATURES

- Redundant genset start option*
- Smallest available footprint*
- Harmonic cancellation*
- Transient protection*
- High-speed voltage regulation*
- Power factor improvement*
- 40° C rating on entire system*
- Remote monitoring*
- Minimal input current distortion*
- Simple installation*
- Low maintenance*
- Quiet operation*
- High overload capability*

FACTORY INSTALLED EQUIPMENT

Standard

- Flywheel energy storage for standby power
- Less than 150 second recharge
- Static bypass and wraparound contactor
- Bi-directional converter
- Local Emergency Power Off (EPO)
- RS232 or RS485 serial connection
- LCD monitor/control panel
- Programmable input and output contacts
- Redundant cooling fans
- Auto restart (programmable)
- Backfeed protection
- Self-diagnostics
- Monitoring and alarms for all critical components
- Voltage regulation and power factor improvement
- Harmonic cancellation

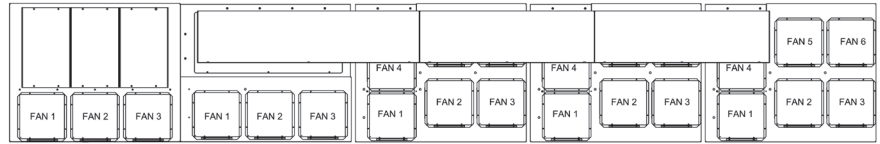
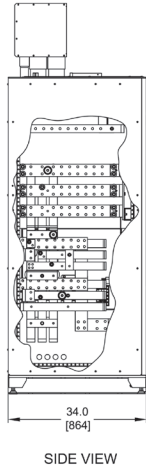
Optional

- GenSTART™ 24 volt genset starting power
- Remote notification and monitoring via modem and paging, and/or Ethernet and e-mail
- CSView™ — real-time monitoring software
- Remote EPO
- Remote status panel
- Separate bypass input
- Maintenance bypass without increasing size
- Dual inputs
- 4-Wire input and output
- Redundant flywheel and power stage
- MODBUS and SNMP interfaces
- External synchronizing input

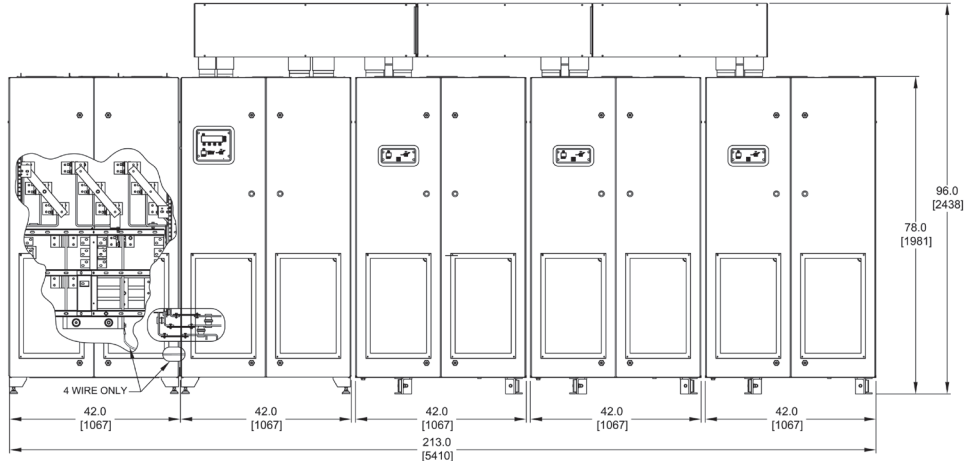
intelligently
EFFICIENT

inherently
RELIABLE

economically
GREEN



TOP VIEW



FRONT VIEW

STANDARD RIDE-THROUGH

Load%	Time
100%	13 seconds
75%	17 seconds
50%	25 seconds
25%	50 seconds

SPECIFICATIONS

SUMMARY DATA

Maximum kVA	900
Maximum kW	720
Input voltage	480
Output voltage	480
AC input current	
Nominal amps	892
Maximum continuous	1200
Maximum non-continuous, including recharge	1320
AC output current	
Nominal amps	1084
System efficiency	
At rated load and nominal input	98%
Heat rejection nominal/worst case	
50,600/156,700 BTU/Hr	14.8/45.9 kW
Cabinet Height	78.0 in
Total Height	96.0 in
Width	213.0 in
Depth	34.0 in
Weight ¹	15,900 lb
Cable Access	Top or Bottom

¹add 650 lbs (295 kg) for 4-wire option

INPUT

Voltage	480 VAC, 3-phase, 3-wire plus ground (from grounded wye source); (4-wire optional)
Voltage range	+10%/-15% (programmable)
Power factor	0.99 at rated load and nominal voltage
Harmonic current distortion	
Linear load	.3% max at 100% resistive load
Non-linear load	<8% with 100% non-linear load
Input frequency	.60 Hz ± 10% max (programmable), ±3% (default)
Surge withstand	Meets IEEE 587/ANSI C62.41
Walk-in	1 to 15 seconds (programmable)

OUTPUT

Voltage	480 VAC, 3-phase, 3-wire plus ground (4-wire with optional 4-wire input)
Voltage regulation	
Steady-state	±2% of nominal for ±10% input and balanced or unbalanced load
Flywheel mode	±2% of nominal for steady-state balanced or unbalanced load
Transient	±5% of nominal for 100% load step
Voltage distortion	3%-full linear load, 5%-full non-linear load
Output frequency	.60 Hz (utility synchronized — normal operation ±0.2% free running)
Slew rate	1 Hz per sec. max
Overload capability — normal operation with static bypass	
10 milliseconds	1000%
1 second	500%
30 seconds	Up to 200%
10 minutes	Up to 125%

ENVIRONMENTAL

Audible noise	< 75 dBA at 1 m (3.28 ft)
Temperature	
Operating	0° C to 40° C (32° F to 104° F)
Storage	-25° C to 70° C (-13° F to 150° F)
Humidity	5% to 95% (non-condensing)
Altitude	Up to 914.4 m (3,000 ft) (derate operating temperature range for higher elevation)
Emissions and immunity	FCC Class A, Subpart J of Part 15

SAFETY

UL 1778 Listed
CUL CAN/CSA 22.2 No. 107.1 Listed



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