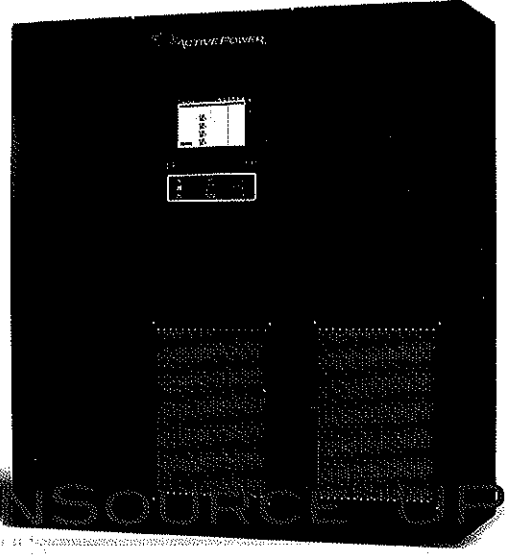
DRIVEN BY MOTION

ACTIVE POWER

Predictable, continuous and efficient power systems engineered for organisations with zero tolerance for downtime.



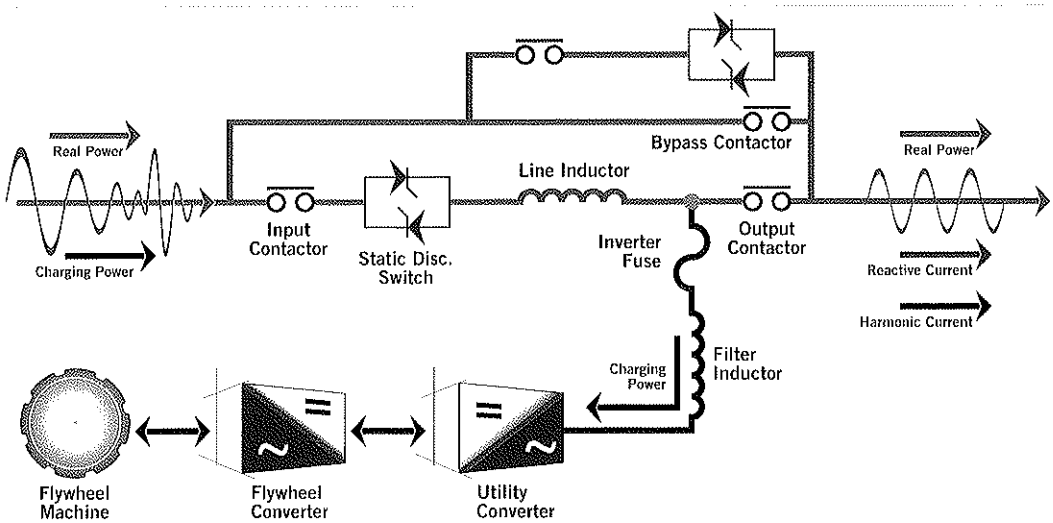
CLEANSOURCE UPS

battery-free energy storage | high reliability | 98% Efficiency | 120 - 150 - 250 500 750 kVA | 380/400/415 V

SYSTEM FEATURES

- *Rugged, on-line and fault-tolerant UPS*
- *Most efficient UPS architecture*
- *Handles multi-load characteristics*
- *Cost-effective lifecycle cost*
- *Predictable flywheel energy storage*
- *20-year design life*
- *Low service and maintenance requirements*
- *Smallest available footprint*
- *Rapid recharge time*
- *Predictive failure analysis*
- *Wide operating temperature range*
- *Remote and local monitoring*
- *10" color LCD touch-screen display*
- *Quiet operation*
- *Simple and cost-effective installation*
- *Field-proven reliability*
- *No hazardous waste material*

PARALLEL ONLINE ARCHITECTURE



intelligently EFFICIENT | inherently RELIABLE | economically GREEN

PRODUCT SPECIFICATIONS

MODEL	UPS 120i	UPS 150i	UPS 250i
RATING			
Maximum kVA	120	150	250
Maximum kW	120	135	225
INPUT			
Voltage	380/400/415 VAC 3-phase, 4-wire plus ground (from grounded wye source)		
Voltage Range	+10% / -15% (programmable) +/- 10% at 380 VAC		
Frequency[1]	50 Hz +/- 10% maximum (programmable) +/- 3% (default)		
Power Factor	0.99 at rated load and nominal voltage		
Harmonic Current Distortion			
Linear Load	<3% at 100% load		
Non-Linear Load[2]	<8% at 100% load		
Current - Nominal (380 VAC)	192	216	355
Current - Nominal (400 VAC)	182	205	337
Current - Nominal (415 VAC)	176	198	325
Current - Max. Continuous	230	400	400
Current - Max. Non-Continuous	290	400	420
Surge Withstand	Meets IEEE 587/ANSI C62.41		
Walk-In	1 to 15 seconds (programmable)		
OUTPUT			
Voltage	380/400/415 VAC 3-phase, 4-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% linear loads and <5% for 100% non-linear loads		
Frequency	50Hz (mains synchronised) (normal operation +/- 0.2% free running)		
Slew Rate	Adjustable from 0.2Hz/second to 3.0Hz/second		
Current - Nominal (380 VAC)	183	228	380
Current - Nominal (400 VAC)	173	217	361
Current - Nominal (415 VAC)	167	209	348
Overload Capability-Mains Operation	Continuous Up to 105%	10 Min 125%	2 Min 150% / 30 Sec 200% / 10 mSec >200%
UPS Efficiency[4]	97%	97%	98%
Environmental			
Audible Noise	<70 dBA at 1m		
Temperature			
Operating	0 to 40° C		
Storage	-25 to 70° C		
Humidity	5% to 95% (non-condensing)		
Altitude[3]	Up to 1,000 metre		
Emissions and Immunity	EN 62040-2		
Maximum Heat Rejection[5]			
kW	4.96	5.43	5.84
BTU/Hr	16,940	18,524	19,946
PHYSICAL DATA			
Height (w/o wireway or DC bus)	1,981 mm	1,981 mm	1,981 mm
Width	1,641 mm	1,641 mm	1,641 mm
Depth	865 mm	865 mm	865 mm
Weight	2,200 kg	2,500 kg	2,500 kg
Cable Entry	Top or Bottom		
Safety	EN62040-1-1		

[1] 60Hz Available
[2] EN62040-3
[3] Derate operating temperature for higher elevations
[4] DC energy storage offline
[5] DC energy storage online

STANDARD RIDE-THROUGH TIMES (SECONDS)

	Time	
Load%	**150i**	**250i**
100%	24	15
75%	33	20
50%	47	30
25%	80	56

FACTORY INSTALLED EQUIPMENT

Standard

- CSView™ – advanced real-time monitoring
- IGBT-based UPS technology
- Flywheel energy storage
- Superior power conditioning
- High-speed voltage regulation
- Static bypass circuit
- User-friendly control panel
- Redundant cooling fans
- Redundant control power
- Power factor correction
- Intelligent self-diagnostics
- Serial connections
- Back-feed protection
- Harmonic cancellation

Optional

- Remote SNMP/MODBUS monitoring capability
- Remote status panel
- Seismic provisions
- GenSTART™ Generator Start Power

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CE

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