



CLEANSOURCE® HD675 UPS

60Hz | 675kW | 480V
FLYWHEEL TECHNOLOGY



PRODUCT SPECIFICATIONS

RATING		
Maximum kVA	750	
Maximum kW	675	
INPUT		
Voltage ³	480 VAC 3-phase, 3-wire plus ground	
Voltage Range	+10% / -15% (programmable)	
Frequency	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 ¹	<5% at 100% load
Current – Nominal (480 VAC)	846A	
Current – Maximum	1050A	
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 ¹	<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)	
Slew Rate	Adjustable from 0.2Hz/second to 3.0Hz/second	
Current – Nominal (480 VAC)	903A	
Overload Capability-Mains Operation	Cont:	105%
	10 min:	<110%
	5 min:	<125%
	1 min:	<150%
	10s:	<200%
Immediate:	>200%	
UPS Efficiency ²	96.5% @ 50% load up to 98% @ 100% load	
ENERGY STORAGE		
Type	Integrated Steel Flywheel spinning at 7,700RPM	
Flywheel Run Time (% Load)	100%:	15s
	75%:	20s
	50%:	29s
	25%:	56s
Flywheel Recharge Time	< 2 min (nominal) at 175kW 3 min (programmable) at 100kW	

¹ EN 62040-3

² DC energy storage offline

³ From grounded WYE source

⁴ Design per UL891

⁵ 100% load (675kW)

GENERAL DATA		
Parallel Capability	Yes, up to 7 systems = 4.725MW	
Internal Static Bypass	Included	
Control Panel	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	<83dBA 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 ⁴	Up to 3,000 feet (914m) / 1.2 C derating for every 1,000ft above 3,000ft	
Emissions and Immunity	FCC Class A Sub-Part 15 J of Part 15/N EN 62040-2	
Heat Rejection – Online ⁵	19.10kW/65,210 BTU/Hr	
PHYSICAL DATA		
Height	80in/2,032mm	
Width	132.0in/3,353mm	
Depth	39in/991mm	
Weight	10,971lbs/4,976kg	
Cable Entry	Top or Bottom	
Safety	UL 1778 Listed. CUL CAN/CSA 22.2 No. 107.1 Listed	
ADDITIONAL OPTIONS		
4-wire Input		
Dual Input		
High Resistance Ground (HRG)		
Remote SNMP/MODBUS Monitoring		
CSView - Real time Monitoring		
GenSTART - Generator Start Power		
Remote EPO		
Floorstand Kit		
Remote Status Panel		
SYSTEM FEATURES		
Online and Fault-Tolerant UPS		
Predictable Flywheel Energy Storage		
20-year Design Life		
Wide Operating Temperature Range		
Quick Recharge Time		
Low Maintenance and Service		
Comprehensive Service and Support		
Multi-vendor Generator and Switchgear Compatibility		
Simple and Cost Effective Installation		
No Hazardous Waste Material		
Field Proven Reliability		



Active Power Inc. 2128 West Braker Lane, Austin, TX 78758
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