



ALTITUDE Series

Three Phase, On-line, Double Conversion

10kVA - 60kVA

36-Month Warranty Guarantee

ORE POWER SOLUTIONS

Three Phase 10 - 60kVA

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SYSTEM HIGHLIGHTS

Up to 94% Efficient

- Lower energy costs and carbon footprint
- Hot Standby Economy Mode available

Compatible & Reliable

- 208VAC or 480VAC models with *internal batteries allows for a smaller footprint
- Cooler operation extends internal component life

AC Input Performance

- High input power factor of 0.99
- Low input current distortion of <1% (THDi) @ full load
- Soft Start Power walk-in function that ensures progressive rectifier start-up

IGBT and Digital Signal Processor (DSP)

- Reduces the impact of the UPS on the local supply
- Simplifies installation where there is limited power capacity

Dual Input

- Main power and secondary emergency standby power increase resilience of single or parallel system configuration

Adaptive Feed Cancellation

- Advanced control with AFC forward cancellation technology for low harmonic distortion

Menu Select Display

- User friendly display is easy to see and intuitive to use

Parallel up to 4 Units

- Provides redundancy for mission critical applications with no additional hardware
- Parallel Kit, Communications through CANBUS Parallel Card

Frequency Conversion

- All units can be set as a 50/60Hz Frequency Converter



OUR WARRANTY

ORE Power is proud to offer a **36-month** warranty on our ALTITUDE series. The warranty begins when the unit is first energized.

*Certain guidelines must be met in order to qualify for warranty on a three phase units.

Visit www.orepowersolutions.com/register for more information

Beyond Our Equipment

ORE Power Solutions partners with a network of highly trained and motivated customer support engineers and technicians who can provide professional services and care throughout the life of your equipment. **Services include: Start-Ups, Preventative Maintenance, Spare Parts, Battery Maintenance, On-Site Training, Time & Material Services & more!**

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ALTITUDE Series UPS Technical Specifications

UPS Rating kVA/kW	10/9	15/13.5	20/18	30/27	40/36	50/45	60/54
Input							
Topology	On-Line Double Conversion						
Voltage	208Y/120 VAC, Three Phase, 4 wire plus ground, 208VAC, 3 wire (Delta) or 220Y/127VAC configurable from the front panel 480Y/277 VAC 4 wire plus plus ground or 480 VAC, 3 wire (Delta)						
Range	+15% / -20% Battery Discharge @ -15% with full load						
Frequency	60/50Hz +/- 5.0 Hz						
Power Factor	0.99 at 100% load, 0.98 minimum at 50% load						
Current Distortion (THD)	<1% @ 100% Load, <2% @ 50% Load, <5% @ 10% Load						
Input Current A (208Y/208Y)	Nominal: 28 Maximum: 33	Nominal: 42 Maximum: 49	Nominal: 56 Maximum: 65	Nominal: 83 Maximum: 97	Nominal: 111 Maximum: 130	Nominal: 143 Maximum: 172	Nominal: 172 Maximum: 206
Input Current Inrush	Walk-In from 25% maximum to 100% full load rating in 5 seconds						
Output							
Voltage	208Y/120 VAC, Three Phase, 4 wire plus ground or 220Y/127 VAC configurable from the Front Panel or 480Y/277 VAC, 4-wire						
Static Voltage Regulation	+/- 2%						
Voltage Transient Response	Voltage transient response shall not exceed the following, and shall recover to 95% within 10 milliseconds: a) <5% RMS for 100% step load b) +/- 1% (loss or return of AC input)						
Frequency (inverter synchronous)	60/50Hz (tracks frequency of static bypass source) +/- 0.5, 1.0, 2.0, 5.0 Hz (user settable)						
Frequency Slew Rate (inverter synchronized to static bypass)	Adjustable 0.1 to ± 10 Hz per second						
Free Running Frequency (on battery or asynchronous)	60/50Hz +/- 0.01Hz						
Voltage Distortion THD	Less than 1% (Linear load), less than 2% with crest factor 2.5 to 1						
Inverter Overload	125% for 10 minutes, 150% for 60 seconds						
Bypass Overload	400% for 10 seconds, 1000% for half line cycle						
Bypass Input – Range Synchronization Voltage	+12% / -15%						
Bypass Input Frequency Tracking Range	+/- 5Hz						
Overall Efficiency	Up to 94%						
Output Current (A)	28	42	55	83	111	139	167
Heat Rejection (BTU/Hr) @208VAC	3,412	5,118	6,824	10,237	13,649	21,000	25,000
Battery							
Battery Type	Internal Sealed Maintenance Free Lead Acid VRLA - 36 Batteries, Center Tap Design (NI-CAD available).					External Battery Cabinet - 36 Batteries, Center Tap	
Voltage	432 volts DC nominal, 486VDC float						
Environmental							
Altitude	De-rate load capability above 1000 meters, 1% per 100 meters						
Operating Temperature	40 °C Maximum						
Audible Noise @ 3 feet "A" weighted scale	61dBA			<75 dBA			
Dimensions and Weights*							
H" x W" x D" / [mm]	72.41 x 23.13 x 34.48 / [1839.3] x [587.4] x [875.7]					76.75 x 34.13 x 34.48 / [1949.5] x [866.9] x [875.7]	
lbs. / [kg]	Minimum 659 / [299] Maximum 1179 / [807]			Minimum 659 / [299] Maximum 1889 / [857]		Minimum 850 / [386] Maximum 1860 / [844]	
Communications							
SNMP/WEB (Optional)	SNMP Card & UPS PowerView Pro Shutdown and Monitoring Software for Windows/Novell						
Modbus	Monitoring & Control via RS-485/RTU Protocol/Read Holding and Write Registers						
Standards							
Agency	UL listed to 1778, CUL to CSA C22.2, NEMA PE-1, ASME, ASA-C-39.1-1984, FCC Part 15 Subpart J Class B, NEC, OSHA, IEEE587, ANSI C 62.41-1980, ISO9000						

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ALTITUDE Internal Battery Back Up Times (minutes)

Model	Internal Battery Time @ Full Load (Minutes)
10kVA/9kW	
ALT-010T- (0, 0-0)	0
ALT-010T- (1, 1-0)	37
ALT-010T-1-1	87
ALT-010T-2	17
ALT-010T-2-2	44
ALT-010T-3	11
ALT-010T-3-3	25
15kVA/13.5kW	
ALT-015T- (0, 0-0)	0
ALT-015T- (1, 1-0)	21
ALT-015T-1-1	53
ALT-015T-2	10
ALT-015T-2-2	25
ALT-015T-3	6
ALT-015T-3-3	15
20kVA/18kW	
ALT-020T- (0, 0-0)	0
ALT-020T- (1, 1-0)	14
ALT-020T-1-1	37
ALT-020T-2	7
ALT-020T-2-2	17
ALT-020T-3-3	10

Model	Internal Battery Time @ Full Load (Minutes)
30kVA/27kW	
ALT-030T- (0, 0-0)	0
ALT-030T- (1, 1-0)	8
ALT-030T-1-1	22
ALT-030T-2-2	10
ALT-030T-3-3	4
40kVA/36kW	
ALT-040T- (0, 0-0)	0
ALT-040T- (1, 1-0)	5
ALT-040T-1-1	15
ALT-040T-2-2	7
50kVA/45kW	
*ALT-050T	0
60kVA/54kW	
*ALT-060T	0
* Not available with internal batteries	



GET IN TOUCH

sales@orepowersolutions.com

+1-862-263-0258

www.orepowersolutions.com