




**ATLAS MARINE SYSTEMS**



FREQUENCY CONVERTER  
**ShorPOWER® Ultra LP**  
12-25kVA

The ShorPOWER ULTRA LP is a single transformer isolation system utilizing state-of-the-art IGBT technology and a pulse width modulated (PWM) control system. This system eliminates concerns over compliance to ever increasing marina regulations and compliance statements regarding the use of onboard generators while docked. Noise and air pollution caused by these generators, coupled by increased operational and maintenance costs, make the use of an ULTRA frequency converter a must.

Additionally, the ShorPOWER ULTRA LP can isolate, regulate and condition dockside power, and protect the onboard electrical system by eliminating voltage spikes, surges, voltage drops or sags, and harmonic distortions typical of dock power. The ULTRA LP is available in a low voltage configuration for yachts under 150 feet. The ULTRA converts any frequency and phase to the yacht's exact electrical requirements.

The ULTRA LP is surprisingly lightweight, and packaged with the space limitations of the yacht in mind. This system will convert single-phase voltage or three-phase voltage to the specific electrical configuration onboard the yacht. The ULTRA LP is available in sizes from 12 to 25 kVA.

### STANDARD FEATURES

- POWER RATINGS FROM 12 TO 25 kVA
- INPUT AUTO-RANGING
- SINGLE AND THREE-PHASE OUTPUTS IN AN ALL STANDARD BUS CONFIGURATION
- LIGHT WEIGHT DESIGN
- MINIMUM INSTALLED VOLUME
- TOUCH SCREEN DISPLAY AND CONTROL PANEL
- PRECISE OUTPUT VOLTAGE AND FREQUENCY REGULATION
- INPUT HIGH VOLTAGE TRANSIENT PROTECTION
- FULLY INTEGRATED INPUT / OUTPUT ELECTRONIC PROTECTION PACKAGE
- STATE-OF-THE-ART IGBT AND PWM TECHNOLOGY
- INPUT EMERGENCY POWER OFF (EPO)
- AUTOMATIC RESTART
- BUILT-IN SELF-DIAGNOSTICS SYSTEM
- INPUT SAFETY DISCONNECT
- NO PERIODIC CALIBRATION REQUIRED
- REMOTE CONTROL AND MONITORING INTERFACE
- PURE SINE WAVE OUTPUT
- BULKHEAD MOUNT

### OPTIONS AVAILABLE

- OUTPUT LOAD DISCONNECT
- REMOTE TOUCHSCREEN OR CONTROL PANEL
- FLOOR MOUNT
- MODULAR CONFIGURATION
- COMMUNICATIONS DATA LINK



This product was manufactured in a plant whose quality management system is registered to ISO 9001:2015.

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## INPUT

VOLTAGE RANGE (SPECIFY)	
AT 12 - 15 kVA	187 TO 260V -OR- 350 TO 528V
AT 25 kVA	187 TO 260V -AND- 350 TO 528V
PHASE	SINGLE PHASE
PHASE ROTATION	ANY
FREQUENCY	40 - 70 Hz
POWER FACTOR	≥ 0.95
INRUSH CURRENT	<50% OF FULL LOAD CURRENT
PROTECTION	OVER/UNDER VOLTAGE, LOSS OF PHASE, AND OVER CURRENT

## ENVIRONMENTAL

TEMPERATURE RANGE	-0°C TO +45°C
RELATIVE HUMIDITY	0 - 95%, NON-CONDENSING

## MECHANICAL

MECHANICAL SPECIFICATIONS VARY DEPENDING ON CONFIGURATION SELECTED. CONTACT ATLAS MARINE SYSTEMS TO OBTAIN MORE INFORMATION.

## OUTPUT

POWER RATING (SPECIFY)	12, 15, OR 25 kVA
OVERLOAD	
AT 12 kVA	100% CONTINUOUS 150% FOR 60 SEC
AT 15 TO 25 kVA	100% CONTINUOUS 110% FOR 2 HOURS 150% FOR 60 SEC 200% FOR 20 SEC
VOLTAGE (SPECIFY)	
· Single-PHASE, 2-WIRE	110, 115, 120, 200, 220, 230, 240 VOLTS
· Single-PHASE, 3-WIRE	110/220, 115/230, 120/240 VOLTS
VOLTAGE REGULATION	±1.0%
PHASE IMBALANCE	NO RESTRICTION
FREQUENCY (SPECIFY)	50 OR 60 HZ
FREQUENCY REGULATION	±0.01% UNDER ALL CONDITIONS OF LINE, LOAD AND TEMPERATURE
HARMONIC DISTORTION	3% MAXIMUM (LINEAR LOADS)
PROTECTION	ALL STANDARD ELECTRICAL AND ENVIRONMENTAL MONITORING FOR EQUIPMENT AND LOAD PROTECTION

