



**ATLAS MARINE SYSTEMS**



FREQUENCY CONVERTER

# ShorPOWER® Ultra HP

## 150-200kVA

The ShorPOWER Ultra HP frequency converter utilizes state-of-the-art technology including the latest generation of power semiconductors and transformers controlled by an ultra-high speed digital system to create precisely regulated output power. This technology allows the converter

to be very compact and lightweight while being electrically powerful and highly efficient.

The Ultra HP will automatically connect to any marina power source worldwide and provide clean, stable and reliable power for the yacht. This is especially important due to ever increasing regulations regarding the use of onboard diesel engine generators while docked at a marina. Noise and air pollution caused by these generators, coupled by increased operational and maintenance costs, make the use of the ShorPOWER Ultra HP frequency converter a must.

Additionally, the ShorPOWER Ultra HP produces a highly regulated output regardless of fluctuations in the dockside power or changes in load onboard. This regulation protects the onboard electrical system by eliminating voltage spikes, surges, voltage drops or sags, and harmonic distortions typical of dock power.

The Ultra HP is designed to be the most reliable converter on the market by manufacturing the converter using only the highest quality components and by engineering the converter for actual marine use, such as operating continually at 100% load in high ambient temperatures.

The Ultra HP is available in output power ratings of 150 to 200kVA. (Consult factory for details.)

### STANDARD FEATURES

- INPUT TO OUTPUT ISOLATION VIA INTERNAL TRANSFORMER
- LOW INPUT CURRENT DISTORTION
- ETHERNET INTERFACE (MODBUS TCP / IP)
- HIGH EFFICIENCY
- INPUT HIGH VOLTAGE TRANSIENT PROTECTION
- MULTI-LANGUAGE DISPLAY
- PRECISE OUTPUT VOLTAGE AND FREQUENCY REGULATION
- EXTERNAL SERVICE ACCESS PORT
- GENEROUS OVERLOAD CAPABILITY
- SOPHISTICATED DIAGNOSTIC AND PROTECTION SYSTEM
- ALARM INDICATION WHEN INPUT CURRENT EXCEEDS PROGRAMMED DOCK BREAKER RATING
- UNBALANCED LOADS ON BOARD ARE NOT REFLECTED ON THE INPUT

### OPTIONS AVAILABLE

- OUTPUT LOAD DISCONNECT
- REMOTE TOUCHSCREEN OR CONTROL PANEL
- REMOTE ACCESS - WIRED ETHERNET CONNECTION
- TECPOWER® SWITCHBOARD DATA LINK INTERFACE
- SWITCHBOARD CONTROLLED SOFT TRANSFER
- RS485 INTERFACE (MODBUS)
- TOP EXHAUST
- SEAMLESS POWER TRANSFER BETWEEN SHORPOWER AND GENERATOR, AND BETWEEN GENERATORS
- PARALLELABLE FOR INCREASED CAPACITY OR REDUNDANCY

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

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## INPUT

VOLTAGE	323 TO 528 VOLTS, 3Ø, 3 WIRE PLUS GROUND
FREQUENCY	50/60 Hz ±10%
INPUT CURRENT DISTORTION	≤ 5%
POWER FACTOR	≥ 0.99
PHASE ROTATION	ANY
INRUSH CURRENT	NO GREATER THAN 50% OF FULL LOAD CURRENT
PROTECTION	OVER/UNDER VOLTAGE, LOSS OF PHASE, OVER CURRENT, SHORT CIRCUIT, VOLTAGE TRANSIENT PROTECTION IAW IEEE C62.41.1 LOCATION CAT. B/C

## ENVIRONMENTAL

ACOUSTICAL NOISE	<65 DBA AT 5 FEET (1.5M)
TEMPERATURE RANGE	-40°C TO +55°C
RELATIVE HUMIDITY	0 - 95%, NON-CONDENSING
INGRESS PROTECTION	IP23 (OPTIONAL IP55)
ENCLOSURE	NEMA 250, TYPE 3RX CORROSION RESISTANT

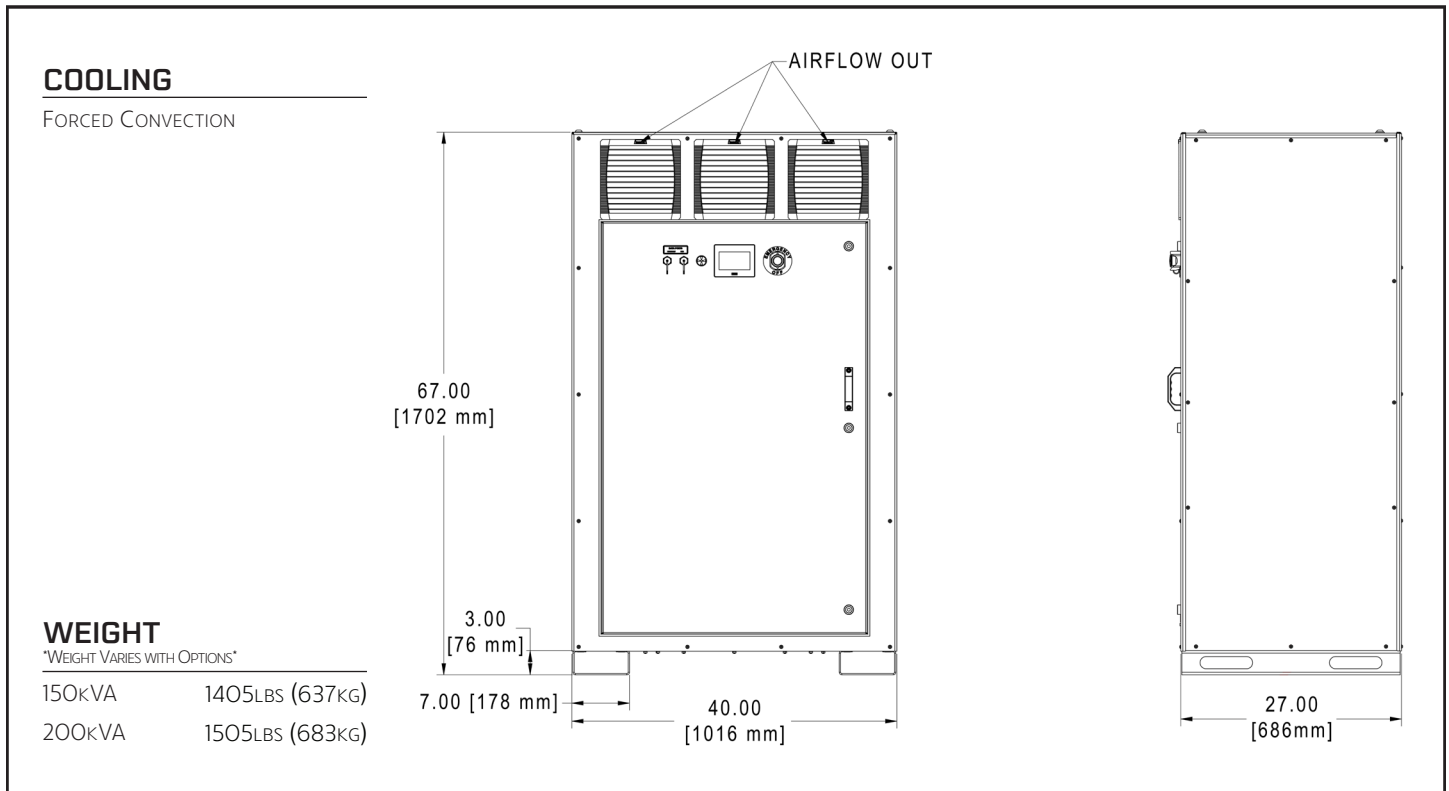
## ENERGY FACTORS

EFFICIENCY	92% TYPICAL AT FULL LOAD; 91% TYPICAL AT HALF LOAD; VARIES DEPENDING ON CONFIG.
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## OUTPUT

POWER RATING	150 OR 200 KVA (SPECIFY)
SYSTEM POWER RATINGS	300 TO 1000 KVA (SPECIFY)
POWER FACTOR	UP TO 1.0
OVERLOAD	100% CONTINUOUS 110% FOR 60 MIN 125% FOR 10 MIN 150% FOR 2 MIN 200% FOR 20 SEC
VOLTAGE (SPECIFY)	
· THREE-PHASE, 3-WIRE	380, 400, 415, 440, 460, 480 VOLTS
· THREE-PHASE, 4-WIRE	220/380, 230/400, 240/415, 265/460, 277/480 VOLTS
CREST FACTOR	1.414 ±3%
VOLTAGE REGULATION	±1.0% UNDER ALL CONDITIONS OF LINE, BALANCED LOADS AND TEMPERATURE
FREQUENCY (SPECIFY)	50 OR 60 HZ
FREQUENCY REGULATION	±0.01% UNDER ALL CONDITIONS OF LINE, LOAD AND TEMPERATURE
FREQUENCY TRANSIENTS	NONE
PHASE ANGLE REGULATION	±2° FOR BALANCED LOADS; ±4° FOR UNBALANCED LOADS
HARMONIC DISTORTION	3% MAXIMUM (LINEAR LOADS)
PROTECTION	ALL STANDARD ELECTRICAL AND ENVIRONMENTAL MONITORING FOR EQUIPMENT AND LOAD PROTECTION

**FIGURE 1 – ShorePOWER ULTRA HP 150-200kVA**



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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