



**ATLAS MARINE SYSTEMS**



## FREQUENCY CONVERTER

# ShorPOWER® Ultra HF

## 100-125kVA

The ShorPOWER Ultra HF 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 HF 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 Ultra HF frequency converter a must.

Additionally, the Ultra HF 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 transients and harmonic distortions typical of dockside power.

The Ultra HF 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 compact lightweight form factor allows the Ultra HF to be installed where height is restricted. Additionally, the ability to mount the system in either a vertical or horizontal configuration expands the installation opportunities on board.

### 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)
- HORIZONTAL CONFIGURATION
- TOP EXHAUST
- LOW VOLTAGE OUTPUT (REQUIRES SEPARATE MODULE)
- SEAMLESS POWER TRANSFER BETWEEN SHORPOWER AND GENERATOR, AND BETWEEN GENERATORS
- PARALLELABLE FOR INCREASED CAPACITY OR REDUNDANCY

