



**ATLAS MARINE SYSTEMS**



## FREQUENCY CONVERTER

# ShorPOWER® Ultra PC

## 12-15kVA

The ShorPOWER Ultra PC is an advanced frequency converter using state-of-the-art IGBT semiconductor technology and a pulse width modulated (PWM) control system. The system is specifically designed to provide highly regulated isolated electrical power from the yacht's main electrical distribution system.

The power produced can be the same frequency as the main generators in which case the Ultra PC provides clean regulated electrical power to sensitive loads such as audio visual equipment regardless of fluctuations commonly found on the main electrical bus.

Alternatively, the Ultra PC can produce power at a different frequency to that of the generators. This power is often used to provide alternate stateroom convenience outlets to eliminate the need for guests to use adapters when connecting any personal equipment brought onboard. The Ultra PC can also provide power for equipment that is only available in certain voltages and frequencies such as specialist audio visual equipment or music equipment. The Ultra PC is available in sizes from 12 to 15 kVA.

### STANDARD FEATURES

- POWER RATINGS FROM 12 TO 15 kVA
- INPUT AUTO-RANGING FROM 187 TO 260V, OR 350 TO 528V
- SINGLE AND THREE-PHASE OUTPUTS IN AN ALL STANDARD BUS CONFIGURATION
- LIGHT WEIGHT DESIGN
- MINIMUM INSTALLED VOLUME
- DIGITAL 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 (FLOOR MOUNT OPTIONAL)

### 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	187 TO 260 VOLTS OR 350 TO 528 VOLTS (SPECIFY)
PHASE (SPECIFY)	1Ø OR 3Ø
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)	
· SINGLE-PHASE	12 OR 15 kVA
· THREE-PHASE	12 OR 15 kVA AT 0.85 POWER FACTOR
OVERLOAD	
At 12 kVA	100% CONTINUOUS 150% FOR 60 SEC
At 15 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
· THREE-PHASE, 3-WIRE	220, 230, 240, 380, 400, 415, 440, 460, 480 VOLTS
· Three-PHASE, 4-WIRE	115/200, 120/208, 220/380, 230/400, 240/415, 265/460, 277/480 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