## Classic III Series

# ShorPOWER®

## FREQUENCY CONVERTERS

Atlas Marine Systems is the world leader in the design of marine electrical power systems. Atlas provides electrical engineering services to define the vessel electrical distribution system and the appropriate application of its TecPOWER™ series switchboards, load management and power management systems. Additionally, the Atlas ShorPOWER® product line, using either a single or dual transformer isolation approach, provides the widest selection of onboard frequency converters available to the yachting community.

### APPLICATION:

The ShorPOWER® *Classic III and IV are* the ultimate electrical power solution for worldwide yachting. These *Classic Series are both* two-stage transformer frequency converter designs, providing double isolation and a sophisticated “smart system” that regulates and conditions dockside power. These high performance frequency converters protect the onboard electrical system by eliminating voltage spikes, surges, voltage drops or sags, and harmonic distortions typical of dock power. Any frequency, phase and voltage will automatically be converted to the yacht’s electrical requirements. The ShorPOWER® Classic III frequency converter system as defined below is offered in sizes from 100 to 600 kVA. To assure full capacity output, which is often limited by some marina power plugs, systems rated 100 kVA and greater should be purchased with a "dual cord" SmartBOX option.

### STANDARD FEATURES:

- Power ratings from 100 kVA to 600 kVA
- Input auto-ranging from 190 to 250 volts and 340 to 500 volts, single or three-phase, 50 or 60 Hz
- Extended voltage transient and lightning protection (dual transformer isolation)
- Three-phase outputs in all standard bus configurations
- Touch-screen display and control panel
- Event history log (non-volatile memory)
- Precise output voltage and frequency regulation
- Pure sine wave output
- 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
- Stud type power connections
- User selectable remote alarm alert system

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# ATLAS MARINE SYSTEMS - ShorPOWER® Classic III

**OPTIONS AVAILABLE:**

- Remote communication data link: RS 232, RS 485, and Ethernet (specify one only)
- Non-integrated, dual shore cord system – GFCI compatible (SmartBOX® option)
- Fully integrated ShorPOWER® to generator, seamless power transfer system
- Fully integrated generator to generator, seamless power transfer system
- TecPOWER™ switchboard data link interface
- Generator auto start for input overload protection (requires seamless power transfer option)
- Modular configuration
- Parallelable for increased capacity and redundancy (includes output safety disconnect)
- Output load disconnect
- Remote touch-screen display and control panel
- Remote start/ stop/ reset switch control box

**GENERAL SPECIFICATIONS**

**INPUT:**

| | |
|---|---|
| **Voltage Range:** | 190 to 250 volts and 340 to 500 volts |
| **Phase:** | Three-phase |
| **Phase Rotation:** | Any |
| **Frequency:** | 40 to 70 Hz |
| **Power Factor:** | ≥ 0.95 |
| **Inrush Current:** | < 50% of full load current |
| **Protection:** | Over/ under voltage, loss of phase & over current |

**ENVIRONMENTAL:**

| | |
|---|---|
| **Temperature Range:** | 0°C to +45°C |
| **Humidity:** | 0% to 95%, non-condensing |

**MECHANICAL:**

Mechanical specifications vary depending on configuration selected. Contact Atlas Marine Systems to obtain more information.

**OUTPUT:**

**Power Ratings (specify):**

100, 125, 150, 200, 250, 300, 400, 450, 600 kVA at 0.85 power factor

**Overload:**
200% for 20 seconds, 150% for 60 seconds, 110% for 2 hours, or 100% continuous

**Voltage (specify):**

| | |
|---|---|
| • 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% |
| **Phase Imbalance:** | No Restriction |
| **Frequency (specify):** | 50 Hz or 60 Hz ± 0.1 Hz |
| **Harmonic Distortion:** | 2% maximum, 1% typical (linear loads) |
| **Efficiency:** | 94% typical at rated load |
| **Protection:** | Over/under voltage, over load & over temperature |