



## Power Conversion for the Marine Market



### *Comprehensive Product Line*

ASEA Power Systems designs and manufactures power conversion equipment – phase, voltage and frequency – for **Marine, Military and Commercial Applications**. Our comprehensive product line ranges in power from 8kVA to 1000+kVA and provides both “Air Cooled” and “Liquid Cooled” Converters. With over 1900 installations, ASEA Power Systems is truly the **World Leader in Shore Power Converters!**

### *Quality Power for your most Sophisticated On-Board Electrical Equipment*

ASEA Power Systems' shore power converters provide precision regulation (<1%) and low harmonic distortion (<1%) to the yacht's power distribution grid. No longer will power spikes, sags and surges present on most docks affect the yacht.

### *Modular Design and Construction*

ASEA Power Systems has utilized over 35 years of customer feedback into designing a modular shore power converter. This modular construction allows for ease of maintenance and affords us the ability to customize each converter to the most demanding customer requirements. If our standard products don't meet the yacht's specific need – we'll custom design the right converter for every application.

### *Accepts any World-Wide Power Input*

Each converter accepts any input power form ranging from 170-520VAC, 40-75Hz and Single or Three Phase.

### *Compact and Lightweight*

With the smallest shore power converter footprint in today's industry – ASEA Power Systems' converters typically are 25-50% smaller than competitive products. With over 20 cabinets to choose from you'll be sure to find the best solution for your yacht.

### *Designed for the Marine Environment*

ASEA Power Systems' shore power converters are designed to withstand the most demanding marine environment. From stainless steel enclosures to conformally coated circuit boards – our shore power converters have everything you would expect to find in a product designed for the marine market.

### *Available Options for Every Application*

ASEA Power Systems provides a comprehensive list of industry standard options. Seamless Transfer, Load Management, Remote Touch Panels, Generator Management Modules and Dual Master Controller are a few of these options. In addition to these standard options – ASEA Power Systems' technical staff can design custom modifications for the yachts most demanding applications (mechanical or electrical).

### *World-Wide Service and Support*

ASEA Power Systems has developed a comprehensive World-Wide Service and Support Network which spans over 40 international locations. No matter where the yacht is cruising - ASEA Power Systems is there to support you.





# SPECIFICATIONS

## INPUT

|                | <i>Model AC24</i>      | <i>Model AC30</i>      | <i>Model AC36</i>      |
|----------------|------------------------|------------------------|------------------------|
| • PHASE        | Single Phase           | Single Phase           | Single Phase           |
| • VOLTAGE      | 170VAC - 520VAC        | 170VAC - 520VAC        | 170VAC - 520VAC        |
| • FREQUENCY    | 40Hz - 70Hz            | 40Hz - 70Hz            | 40Hz - 70Hz            |
| • POWER FACTOR | >0.98 @ Rate Load      | >0.98 @ Rate Load      | >0.98 @ Rate Load      |
| • AUTO-RESTART | Standard               | Standard               | Standard               |
| • SHORE CORDS  | Accepts Single or Dual | Accepts Single or Dual | Accepts Single or Dual |

## OUTPUT

|                     |  |  |  |
|---------------------|--|--|--|
| • PHASE             | 1 Phase  | 1 Phase  | 1 Phase  |
| • POWER RATING      | 24kVA  | 30kVA  | 36kVA  |
| • FIELD UPGRADEABLE | 30kVA, 36kVA or Parallelable                   | 36kVA or Parallelable                          | Parallelable                                   |
| • POWER FORM        | 110/220V, 115/230V, 120/240V, 220V, 230V, 240V | 110/220V, 115/230V, 120/240V, 220V, 230V, 240V | 110/220V, 115/230V, 120/240V, 220V, 230V, 240V |
| • FREQUENCY         | 50Hz or 60 Hz                                  | 50Hz or 60 Hz                                  | 50Hz or 60 Hz                                  |
| • CURRENT           | 100A @ 240VAC                                  | 125A @ 240VAC                                  | 150A @ 240VAC                                  |
| • EFFICIENCY        | 91% (Input to Output kW)                       | 91% (Input to Output kW)                       | 91% (Input to Output kW)                       |
| • DISTORTION        | <1% THD, Linear Load                           | <1% THD, Linear Load                           | <1% THD, Linear Load                           |
| • POWER FACTOR      | No Restrictions, Unity To ±0.0                 | No Restrictions, Unity To ±0.0                 | No Restrictions, Unity To ±0.0                 |
| • LOAD REGULATION   | <1%  | <1%  | <1%  |
| • PARALLELABLE      | Yes  | Yes  | Yes  |

### SYSTEM ENVIRONMENTAL • MECHANICAL

- 0-50°C Full Load
- 0-95% RH, Non-Condensing
- Stainless Steel and Aluminum Structures
- External Surfaces Powder Coated - Snow White
- All Printed Circuit Boards – Conformal Coated
- Fork Lift Bases

### SYSTEM OPTIONS (Partial List)

- SEAMLESS TRANSFER (1-4 GENS)
- DUAL SHORE CORDS
- PARALLELING
- DUAL MASTER CONTROLLERS
- PLC – STO INTERFACE
- REMOTE TOUCH PANELS
- RS-232 or MOD BUS
- CUSTOM CABINETS/MODIFICATIONS

### SYSTEM CABINET STYLES

#### Models AC24, AC30 and AC36

*Style "F":* 41'H x 18"W x 30.25"D  
(104.2cm x 45.7cm x 76.8cm)

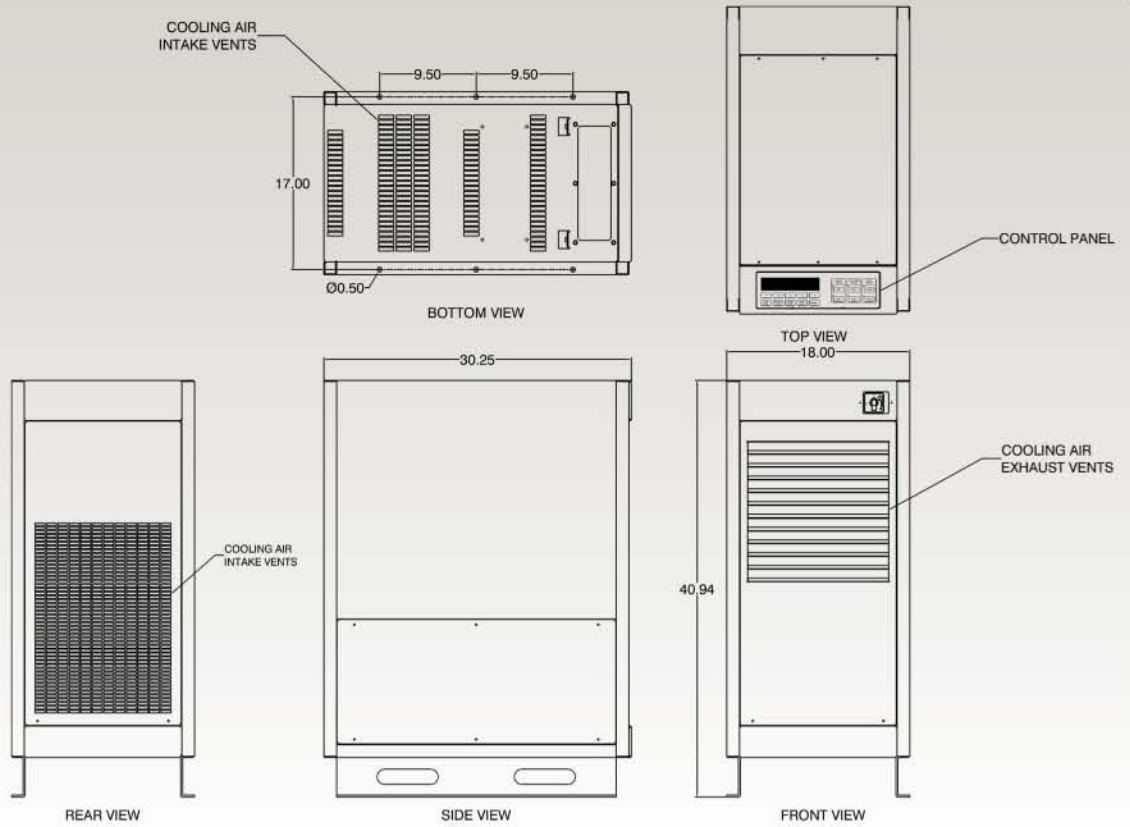
*Style "O":* 14.6"H x 17"W x 25.5"D  
(37.1cm x 43.2cm x 64.8cm)  
Input Power Cabinet  
24"H x 24"W x 24"D  
(61cm x 61cm x 61cm)  
Control Cabinet

### SYSTEM CONTROL, METERING & STATUS

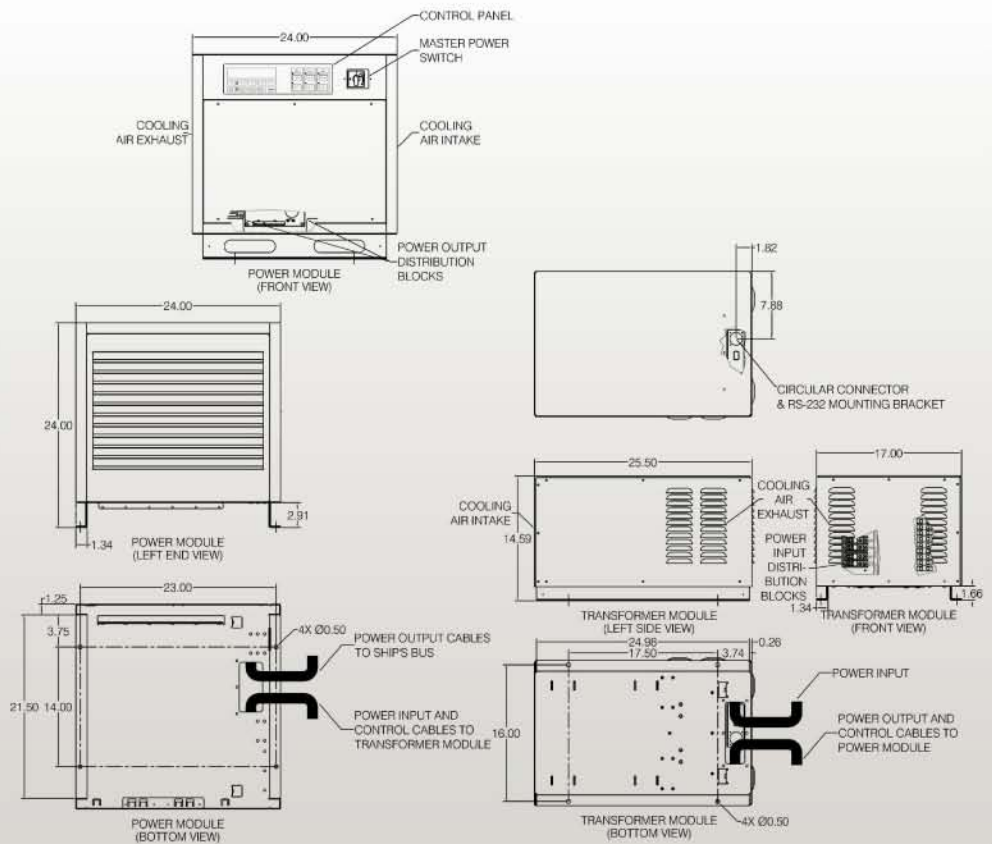
- SHORE POWER CONTROLS: Input Service Disconnect, Input On/Off Control
- SHORE POWER METERING: Voltage, Current, Frequency, kVA, kW, % Load
- SHIPS POWER CONTROLS: Output On/Off
- SHIPS POWER METERING: Voltage, Current, Frequency, kVA, kW, % Load
- GENERATOR CONTROLS: Transfers
- GENERATOR METERING: Voltage, Frequency
- SYSTEM STATUS: Operational, Diagnostics, Software
- EVENT LOGS & POWER MONITORING CABILITY STANDARD ON EVERY SYSTEM



Cabinet Style "F"



Cabinet Style "O"





## INSTALLATION PHOTOS



**Model AC36-1-0**



**Model AC75-3/2-0**



**Model AC75-3/2-F**

Represented by: