

# **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

- PHASE
- VOLTAGE
- FREQUENCY
- POWER FACTOR
- AUTO-RESTART
- SHORE CORD

#### Model AC25-1

Single or Three Phase 170VAC - 520VAC 40Hz - 70Hz

>0.99 @ Rate Load Standard Single

Dual: Model AC50-1/2

#### Model AC30-1

Single or Three Phase 170VAC - 520VAC 40Hz - 70Hz >0.99 @ Rate Load

Standard Single

Dual: Model AC60-1/2

#### Model AC36-1

Single or Three Phase 170VAC - 520VAC 40Hz - 70Hz >0.99 @ Rate Load

Standard Single

Dual: Model AC75-1/2

## OUTPUT

- PHASE
- POWER RATING
- FIELD UPGRADEABLE
- POWER FORM
- FREQUENCY
- CURRENT
- EFFICIENCY
- DISTORTION
- POWER FACTOR
- LOAD REGULATION
- PARALLELABLE

1 Phase

25kVA

30kVA, 36kVA or Parallelable

110/220V, 115/230V, 120/240V,

220V, 230V, 240V

50Hz or 60 Hz

105A @ 240VAC

91% (Input to Output kW)

<1% THD, Linear Load

No Restrictions, Unity To ±0.0

<1% Yes 1 Phase 30kVA

OURVA

36kVA or Parallelable

110/220V, 115/230V, 120/240V,

220V, 230V, 240V 50Hz or 60 Hz

125A @ 240VAC

91% (Input to Output kW)

<1% THD, Linear Load

No Restrictions, Unity To ±0.0 <1%

Yes

1 Phase 30kVA

Parallelable

110/220V, 115/230V, 120/240V,

220V, 230V, 240V 50Hz or 60 Hz 150A @ 240VAC

91% (Input to Output kW)

<1% THD, Linear Load

No Restrictions, Unity To ±0.0

<1% 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 CABINET STYLES Models AC25-1/-3, AC30-1/-3, AC36-1/-3

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

Style "L": 57.675"H x 18"W x 21"D

(146.5cm x 45.7cm x 53.3cm)

#### **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 CONTROL, METERING & STATUS

SHORE POWER CONTROLS:

Input Service Disconnect, Input On/Off Control

SHORE POWER METERING:

Voltage, Current, Frequency, kVA, kW, % Load

SHIPS POWER CONROLS:

Output On/Off

· SHIPS POWER METERING:

Voltage, Current, Frequency, kVA, kW, % Load

GENERATOR CONTROLS:

• GENERATOR METERING: Volta

Transfers Voltage, Frequency

· SYSTEM STATUS:

Operational, Diagnostics, Software

EVENT LOGS & POWER MONITORING CABILITY STANDARD ON EVERY SYSTEM



# INPUT

- PHASE
- VOLTAGE
- FREQUENCY
- POWER FACTOR
- AUTO-RESTART
- SHORE CORD

#### Model AC25-3

Single or Three Phase 170VAC - 520VAC

40Hz - 70Hz

>0.99 @ Rate Load

Standard Single

Dual; Model AC50-3/2

#### Model AC30-3

Single or Three Phase

170VAC - 520VAC

40Hz - 70Hz

>0.99 @ Rate Load

Standard Single

Dual; Model AC60-3/2

#### Model AC36-3

Single or Three Phase

170VAC - 520VAC

40Hz - 70Hz

>0.99 @ Rate Load

Standard Single

Dual: Model AC75-3/2

# OUTPUT

- PHASE
- POWER RATING
- FIELD UPGRADEABLE
- POWER FORM
- FREQUENCY
- CURRENT
- EFFICIENCY
- DISTORTION
- POWER FACTOR
- LOAD REGULATION
- PARALLELABLE

3 Phase 25kVA

30kVA, 36kVA or Parallelable

120/208VAC, 127/220VAC

220/380VAC, 230/400VAC

240/415VAC, etc.

50Hz or 60 Hz

36A @ 230/400VAC

70A @ 120/208VAC

91% (Input to Output kW)

<1% THD, Linear Load

No Restrictions, Unity To ±0.0

<1%

Yes

3 Phase

30kVA

36kVA or Parallelable 120/208VAC, 127/220VAC

220/380VAC, 230/400VAC

240/415VAC, etc.

50Hz or 60 Hz

43A @ 230/400VAC

83A @ 120/208VAC

91% (Input to Output kW)

<1% THD, Linear Load

No Restrictions, Unity To ±0.0

<1%

Yes

3 Phase 36kVA

Parallelable

120/208VAC, 127/220VAC

220/380VAC, 230/400VAC

240/415VAC, etc.

50Hz or 60 Hz

52A @ 230/400VAC

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100A @ 120/208VAC

91% (Input to Output kW)

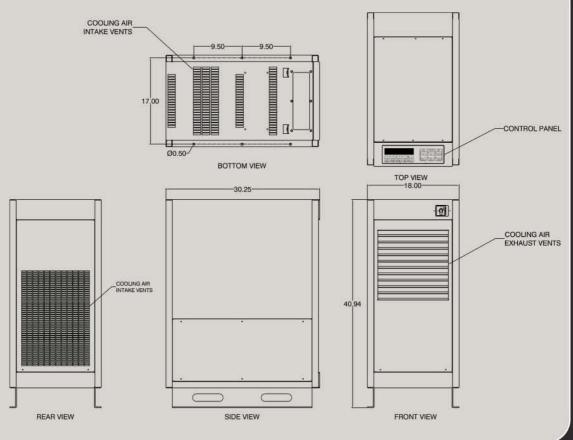
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No Restrictions, Unity To ±0.0

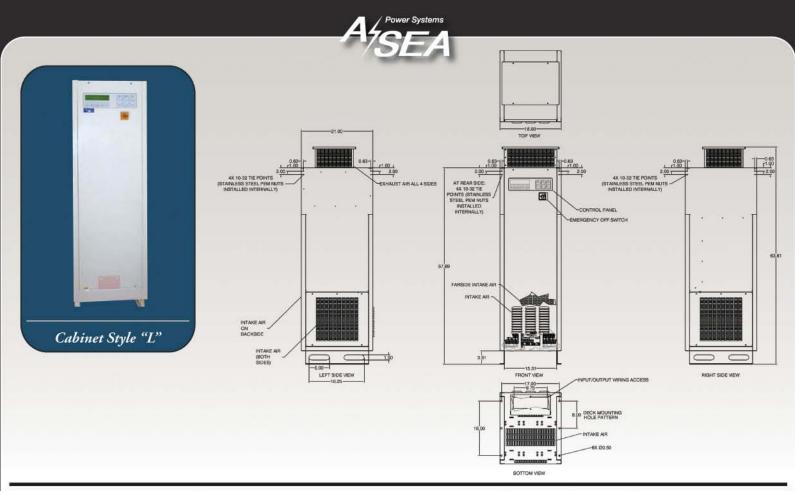
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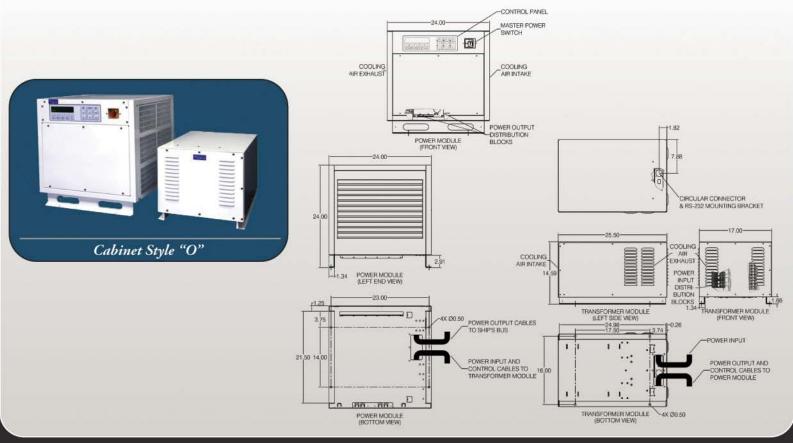
Yes











Represented by:

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