Power Systems

ASEA

Power Conversion for the Marine Market



Shore Power Converters: 36-105kVA (1 and 3 Phase Outputs)

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 2700 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 doesn't meet the yacht's specific need – we'll custom design the right converter for every application.

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 40 cabinets to choose from you'll be sure to find the best solution for your yacht.

Accepts any World-Wide Power Input

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

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 has 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	*Model AC36-1*	*Model AC45-1*	*Model AC54-1*
• PHASE	Single or Three Phase	Single or Three Phase	Single or Three 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 CORD	Single	Single	Single
	Dual; Model AC75-1/2	Dual; Model AC90-1/2	Dual; Model AC105-1/2
OUTPUT			
• PHASE	1 Phase	1 Phase	1 Phase
• POWER RATING	36kVA	45kVA	54kVA
• FIELD UPGRADABLE	45kVA, 54kVA or Parallelable	54kVA 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 60Hz	50Hz or 60Hz	50Hz or 60Hz
• CURRENT	150A @ 240VAC	187A @ 240VAC	225A @ 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%
• PARRALLELABLE	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 CABINET STYLES
Models AC36-1/-3, AC45-1/-3, AC54-1/-3

Style "D": 41"H x 23.875"W x 30.25"D (104.2cm x 60.7cm x 76.8cm)

Style "I": 56.125"H x 25"W x 20"D (142.6cm x 63.5cm x 50.8cm)

Style "I": 56.125"H x 25"W x 25"D (142.6cm x 63.5cm x 63.5cm)
w/ Heat Exchanger

Style "H": 25"H x 37.25"W x 23.875"D (63.5cm x 94.6cm x 60.7cm)
2 Alternate Display Locations

Style "N": 55"H x 59.875"W x 10"D (139.7cm x 152.1cm x 25.4cm)

SYSTEM OPTIONS (Partial List)

- SEAMLESS TRANSFER (1-4 GENS)
- DUAL SHORE CORDS
- PARALLELING
- WATER COOLED
- 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: Transfers
- GENERATOR METERING: Voltage, Frequency
- SYSTEM STATUS: Operational, Diagnostics, Software
- EVENT LOGS & POWER MONITORING CABILITY STANDARD ON EVERY SYSTEM



INPUT

	Model AC36-3	Model AC45-3	Model AC54-3
• PHASE	Single or Three Phase	Single or Three Phase	Single or Three 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 CORD	Single	Single	Single
	Dual; Model AC75-3/2	Dual; Model AC90-3/2	Dual; Model AC105-3/2

OUTPUT

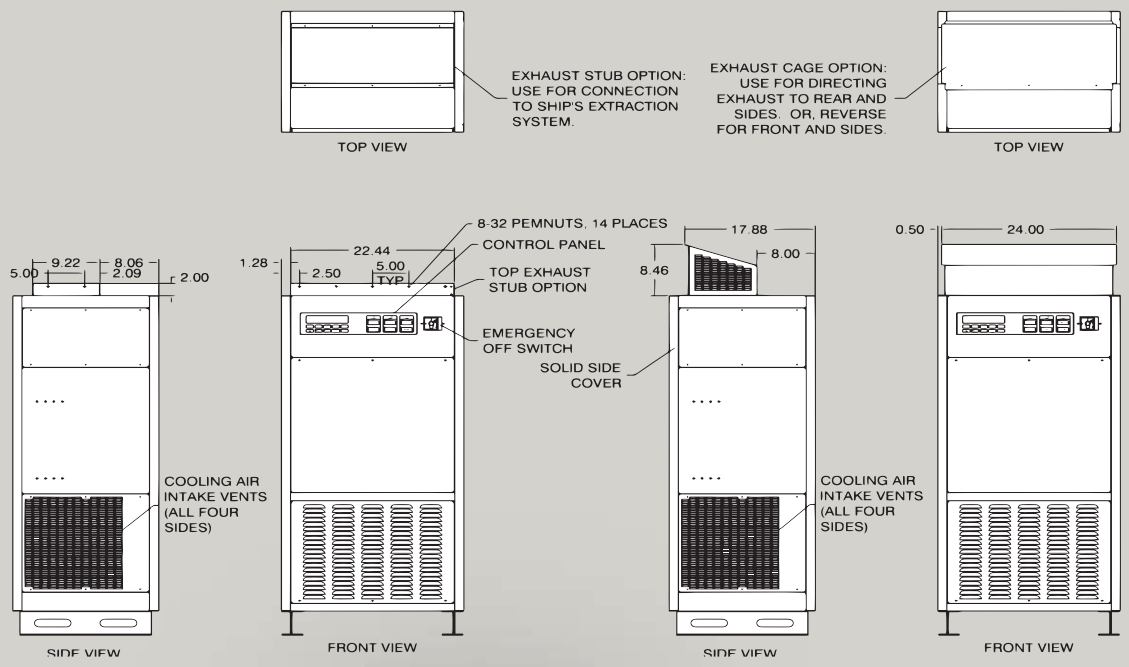
• PHASE	3 Phase	3 Phase	3 Phase
• POWER RATING	36kVA	45kVA	54kVA
• FIELD UPGRADABLE	45kVA, 54kVA or Parallelable	54kVA or Parallelable	Parallelable
• POWER FORM	120/208VAC, 127/220VAC, 220/380VAC, 230/400VAC, 240/415VAC, etc.	120/208VAC, 127/220VAC, 220/380VAC, 230/400VAC, 240/415VAC, etc.	120/208VAC, 127/220VAC, 220/380VAC, 230/400VAC, 240/415VAC, etc.
• FREQUENCY	50Hz or 60Hz	50Hz or 60Hz	50Hz or 60Hz
• CURRENT	52A @ 230/400VAC 100A @ 120/208VAC	65A @ 230/400VAC 125A @ 120/208VAC	78A @ 230/400VAC 150A @ 120/208VAC
• 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%
• PARRALLELABLE	Yes	Yes	Yes



Cabinet Style "I"

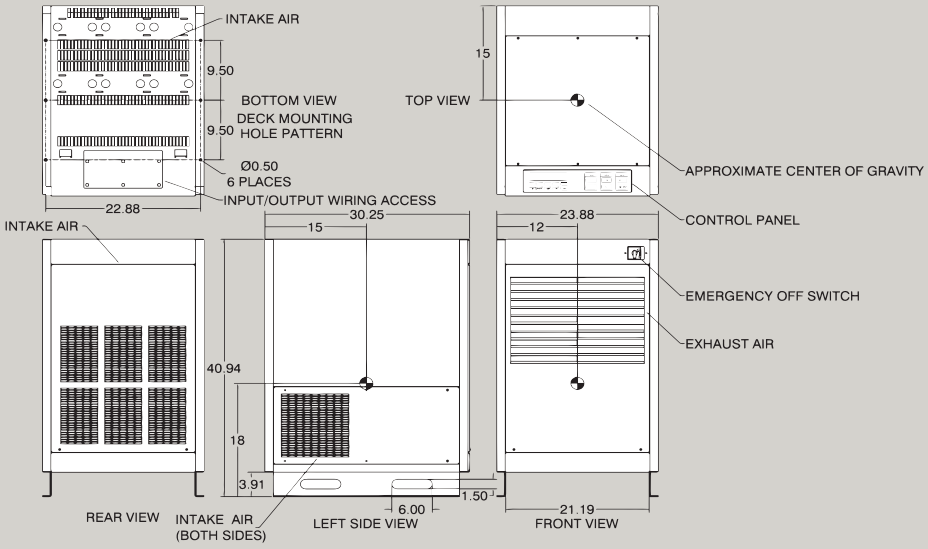


Cabinet Style "I"
w/ Heat Exchanger



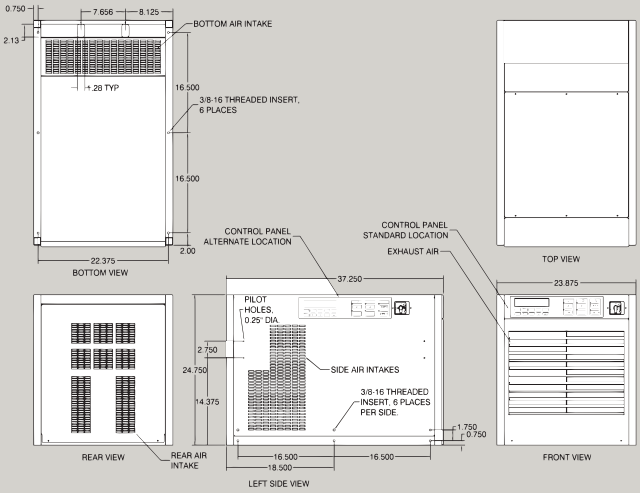


Cabinet Style "D"



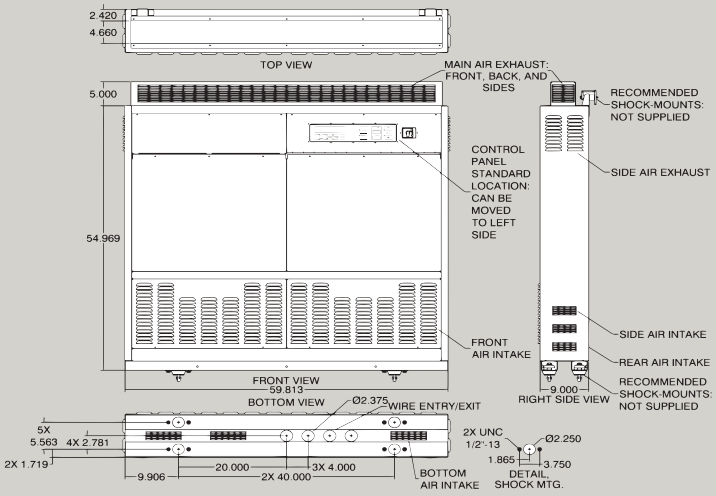


Cabinet Style "H"





Cabinet Style "N"



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Represented by:

Subject to change without notice