



ATLAS MARINE SYSTEMS



## FREQUENCY CONVERTER

# ShorPOWER® Docker HF

## 100-125kVA

The ShorPOWER Docker HF is a shore-based electric frequency and voltage converter that supplies power to yachts that are not compatible with the locally available dockside power. The Docker is equipped with a low noise and weather protected enclosure. It can operate alongside a yacht without disturbing occupants or adjacent vessels. The Docker HF is suitable for various installations and provides an excellent return on investment for the owner, given its surprisingly short payback interval.

**MANUFACTURERS AND REFIT YARDS** NOW HAVE FULL ACCESS TO FREQUENCY AND VOLTAGE CONVERSION.

**MARINA OPERATORS** CAN EASILY PROVIDE WORLD CLASS YACHTS THE SERVICE OF ANY FREQUENCY AND VOLTAGE DOCKSIDE POWER.

**YACHT OWNERS** CAN AVOID COSTLY AND UNNECESSARY GENERATOR OPERATION WHILE IN PORT.

### STANDARD FEATURES

- USER SELECTABLE OUTPUT VOLTAGE AND FREQUENCY
- INPUT TO OUTPUT ISOLATION VIA INTERNAL TRANSFORMER
- OUTDOOR CONFIGURATION IAW IP55
- LOW INPUT CURRENT DISTORTION
- ETHERNET INTERFACE (MODBUS TCP / IP)
- HIGH EFFICIENCY
- INPUT HIGH VOLTAGE TRANSIENT PROTECTION
- MULTI-LANGUAGE DISPLAY
- PRECISE OUTPUT VOLTAGE AND FREQUENCY REGULATION
- EXTERNAL SERVICE ACCESS PORT
- GENEROUS OVERLOAD CAPABILITY
- SOPHISTICATED DIAGNOSTIC AND PROTECTION SYSTEM
- ALARM INDICATION WHEN INPUT CURRENT EXCEEDS PROGRAMMED DOCK BREAKER RATING
- UNBALANCED LOADS ON BOARD ARE NOT REFLECTED ON THE INPUT

### OPTIONS AVAILABLE

- OUTPUT LOAD DISCONNECT
- REMOTE TOUCHSCREEN OR CONTROL PANEL
- PARALLELABLE FOR INCREASED CAPACITY OR REDUNDANCY
- VERTICAL CONFIGURATION
- CE MARK

This product was manufactured in a plant whose quality management system is registered to ISO 9001:2015.

Atlas Marine Systems • 1801 S. Perimeter Rd • Ft Lauderdale, FL 33309  
Sales: +1-954-735-6767 • Service: +1-214-343-7587 • Fax: +1-954-735-7676  
info@AtlasMarineSystems.com • www.AtlasMarineSystems.com

## INPUT

VOLTAGE	177 TO 528 VOLTS, 1Ø AND 3Ø, 2 OR 3 WIRE PLUS GROUND
FREQUENCY	50/60 Hz ±10%
INPUT CURRENT DISTORTION	≤ 5%
POWER FACTOR	≥ 0.99
PHASE ROTATION	ANY
INRUSH CURRENT	NO GREATER THAN 50% OF FULL LOAD CURRENT
PROTECTION	OVER/UNDER VOLTAGE, LOSS OF PHASE, OVER CURRENT, SHORT CIRCUIT, VOLTAGE TRANSIENT PROTECTION IAW IEEE C62.41.1 LOCATION CAT. B/C

## ENVIRONMENTAL

ACOUSTICAL NOISE	<65 DBA AT 5 FEET (1.5M)
TEMPERATURE RANGE	-40°C TO +55°C
RELATIVE HUMIDITY	0 - 95%, NON-CONDENSING
INGRESS PROTECTION	IP55
ENCLOSURE	NEMA 250, TYPE 3RX CORROSION RESISTANT

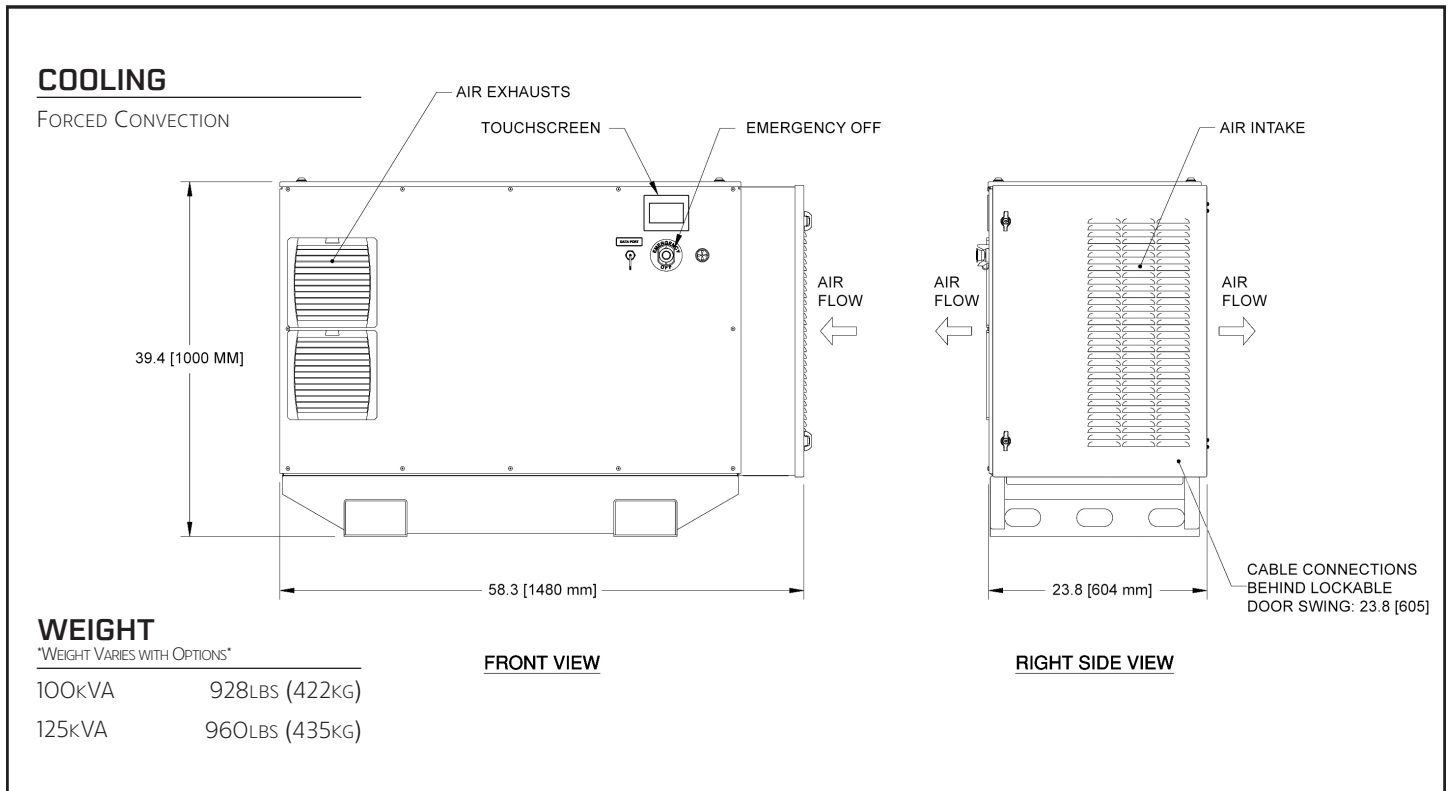
## ENERGY FACTORS

EFFICIENCY	92% TYPICAL AT FULL LOAD; 91% TYPICAL AT HALF LOAD; VARIES DEPENDING ON CONFIG.
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## OUTPUT

POWER RATING	100 OR 125 kVA (SPECIFY)
SYSTEM POWER RATINGS	200 TO 1000 kVA (SPECIFY)
POWER FACTOR	UP TO 1.0
OVERLOAD	100% CONTINUOUS 110% FOR 60 MIN 125% FOR 10 MIN 150% FOR 2 MIN 200% FOR 20 SEC
VOLTAGE (SPECIFY)	
· THREE-PHASE, 3-WIRE	380, 400, 415, 440, 460, 480 VOLTS
· Three-PHASE, 4-WIRE	220/380, 230/400, 240/415, 254/440, 265/460, 277/480 VOLTS
CREST FACTOR	1.414 ±3%
VOLTAGE REGULATION	±1.0% UNDER ALL CONDITIONS OF LINE, BALANCED LOADS AND TEMPERATURE
FREQUENCY (SPECIFY)	50 OR 60 HZ
FREQUENCY REGULATION	±0.01% UNDER ALL CONDITIONS OF LINE, LOAD, AND TEMPERATURE
FREQUENCY TRANSIENTS	NONE
PHASE ANGLE REGULATION	±2° FOR BALANCED LOADS; ±4° FOR UNBALANCED LOADS
HARMONIC DISTORTION	3% MAXIMUM (LINEAR LOADS)
PROTECTION	ALL STANDARD ELECTRICAL AND ENVIRONMENTAL MONITORING FOR EQUIPMENT AND LOAD PROTECTION

**FIGURE 1 – ShorePOWER Docker HF 100–125kVA**



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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