

ER-F60W Series Frequency Converter/Marine Power Supply



ERF60W is designed to change conventional 50 Hz or 60 Hz electrical energy to the needs of the shipboard power in an indoors type of enclosure for installation in a substation or power distribution room. It can also be the shore to ship power converters in an all-weather outdoor enclosure for installing on the dockside or mooring berth.

It integrates IGBT made by Mitsubishi, Siemens and Infineon with PWM switching technology, and combines micro controller (digital signal control) design for quicker response and higher reliability. ERF60W is widely used in shipyard, ship manufacturing and repair plant, docks and other powered ship occasion.

Main Features

Isolated output transformer, suit for any unbalance loads.

Every single phase can be used independently

EMC compatible, Low noise

Thoroughly proven advanced SPWM and IGBT technology

Galvanically isolated, low harmonic distortion

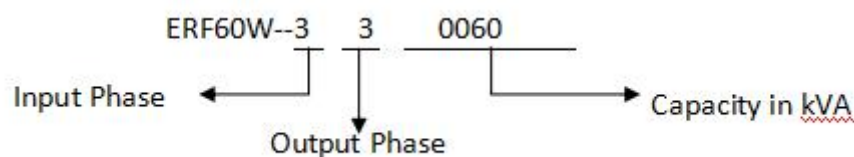
Pure Sine wave, sinusoidal output

Variable frequency and voltage

Display real-time data: voltage, current, frequency and power

Models Selection

The ERF60W series power supply model designation is shown below:



ERF60W series power supply single unit are available with the following capacities:

Triple phase output:

15kVA, 20kVA, 30kVA, 45kVA, 60kVA, 75kVA, 100kVA, 150kVA, 200kVA, 300kVA, 500kVA, 600kVA, 800kVA, 1200kVA

Specification

Capacity:

15kVA to 1200kVA

Input:

Voltage: 3 x240V/415V+/-30%

3 x220V/380V+/-30% Or as per your specific

requirement(select one individual voltage)

Frequency:40-70Hz

Power Factor:

≥0.8 (Standard Type)

≥0.9 (12-pulse Type,option item)

Output Voltage: 3x220V/380V, 3x240V/415V 3x254V/440V,3x277V/480V Fixed

Overload: 125% for 600 sec; 150% for 30 sec

Protection:

Input Over/under voltage, phase loss

Over current, Over load

Inner over heating,Short circuit

Output Phase loss, wrong phase sequence

Display:

Output voltage, Current, Frequency

Start/Stop,On/off each output

Emergency Stop

Working condition:

Temperature: -10 to 50°C

3 phase 216-292V/374-506V adjustable (select one individual voltage)

Frequency:50Hz or 60Hz

Voltage Regulation:+/-1%

Frequency Regulation: +/-0.1%

Crest: 1.414+/-0.1

Distortion: THD<3%@ linear load

Phase angle symmetry:

120°±2° (33% unbalance Load)

120°±4° (100% unbalance Load)

Reliability&Efficiency:

Mean Time Between Failure(MTBF) 50,000H

Mean time To Restoration(MTTR)< 30 min

Overall efficiency $\geq 85\%$

Standards:

EN61010

EC 62321

EN61326

EN62040-1-1