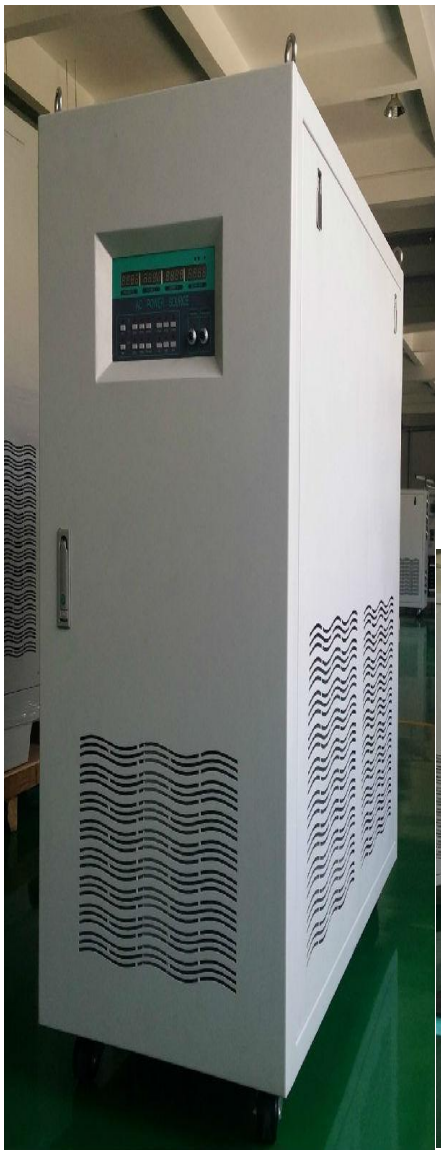
ER-50W Series Voltage&Frequency Stabilizer/AC Power Supply



ER50W series is utilizing the rectifying and inverting technology to convert the unsteady electricity from +/-30% variable into steady status with galvanically isolated, single phase or three phase power source.

ER50W Series are designed to prevent the sensitive electronics/heavy duty electric equipment from damage when they are supplied under unstable state electric grid/generator, such as flicker, power drops etc. It integrates IGBT made by Mitsubishi, Siemens, and combines analog signal control design together for compact size and higher reliability. It's widely application in factory manufacturing, technology researching as well as home appliances.

Main Features:

High reliability and availability

Galvanically isolated,low harmonic distortion

Isolated output transformer,suit for any unbalance loads.

Every single phase can be used independently

Thoroughly proven advanced SPWM and IGBT technology

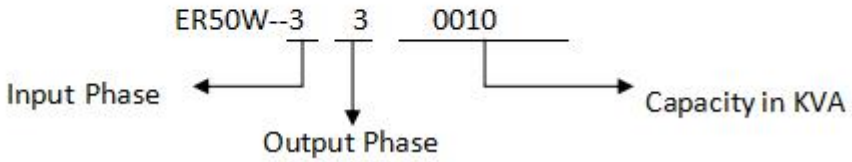
Pure sine wave,sinusoidal output

Better overload capacity

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

Models Selection

ER50W series power supply model designation is shown below:



ER50W series power supply single units are available with the following capacities:

Single phase output: (Select one individual KVA)

1kva,2kva,3kva,5kva,10kva,15kva,20kva,30kva,45kva,60kva100kva,150kva,200kva

3 phase output: (Select one individual KVA)

1kva,3kva,6kva,10kva,15kva,20kva,30kva,45kva,60kva,100kva,150kva,200kva,

300kva,400kva,500kva,600kva,800kva,1000kva,1500kva,2000kva

Specification

Capacity:

1KVA to 2000KVA

Input Voltage: 1 phase

120v+/-30%(80v-150v),

1 phase 220v+/-30%(160v-280v) or 3 phase 380v+/-30%(265v-495v) or as per your specific requirement

Frequency: 30hz-80hz

Power Factor:

≥0.8 （Standard Type）

≥0.9（12-pulse Type,option item）

Output Voltage: 1 phase 120V,1 phase 220V

Or 3x220V/380V, 3x240V/415V

Or as per your specific requirement

Frequency: 50Hz or 60Hz

Voltage Regulation: +/-1%

Frequency Regulation: +/-0.1%

Crest: 1.414+/-0.1

Distortion: clean sine wave THD<3%@Linear loads

Overload

110% 15Mins,120% shut down

Protection

Over/under voltage

Over current,Over load

Over temperature,Short circuit

Voltage difference between each phase<3V

Additional output contactor (Option item)

Display LED: Voltage, Current, frequency, Power/PF

Working condition

Temperature:-10 to 40℃

Humidity: 10-95%

Noise: < 65dB within 1 meter

IP22/IP32

Altitude<1800m

Reliability&Efficiency

Mean Time Between Failure(MTBF) 50,000H

Mean time to restoration(MTTR)< 30 min

Overall efficiency≥80%

Standards

EN61010

EC 62321

EN61326

EN62040-1-1