

## AF400M Series Static Frequency Converter/AC Power Supply

Acsoon® AF400M series is one of the most popular 400hz static frequency converter.

AF400M is designed to change conventional 50 Hz or 60 Hz electrical energy to 400hz/300-500hz(adjustable).

It integrates IGBT made by Mitsubishi, Siemens, and combines analog signal control design together for compact size and higher reliability.

AF400M as a power source is ideal for testing aviation electronics and aviation electrical equipment.

It can simulate 115V 400hz aircraft power with clean sine wave output and excellent line and load regulation, high efficiency and low harmonic distortion.

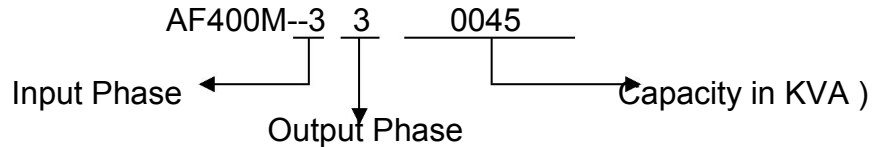
### Main Features

- Isolated output transformer, suitable for any unbalance loads. Every single phase can be used independently
- Compatible with both 50Hz and 60Hz power supply network
- Galvanically isolated, low harmonic distortion
- Pure sine wave, sinusoidal output
- Display real-time data: voltage, current, frequency and power



## Models Selection

The Acsoon® AF400M series power supply model designation is shown below:



Acsoon® AF400M series power supply single unit are available with the following capacities:

- Single phase output: (Select one individual KVA)  
1kva,2kva,3kva,5kva,10kva,15kva,20kva,30kva
- 3 phase output: (Select one individual KVA)  
1kva,3kva,6kva,10kva,15kva,20kva,30kva,45kva,60kva

## Specification

### ● Capacity

- ◇ 1KVA to 60KVA

### ● Input

- ◇ Voltage:1 phase 120V±15% ,1 phase  
220V±15%,3 x220V/380V±15%,  
3 x127V/220V±15% or as per your specific  
Requirement(select on individual voltage)
- ◇ Frequency:50/60Hz±5%

### ● Overload

- ◇ 125% 30s

### ● Protection

- ◇ Output over voltage
- ◇ Over current,Internal over temperature

### ● Display

- ◇ LED:Voltage,Current,frequency,Power/PF

### ● Working condition

- ◇ Power Factor:
- ◇  $\geq 0.8$  (Standard Type)
- ◇  $\geq 0.9$  (12-pulse Type,option item)
- ◇ Temperature:-10 to 45°C
- ◇ Humidity:10-95%
- ◇ Noise:< 65dB within 1 meter
- ◇ IP20/IP32
- ◇ Altitude<1800m

### ● Output

- ◇ Voltage: 1 phase: 115V fixed,  
1 phase 97-132V adjustable  
Or 3 phase: 3 x115V(L-N)/200V(L-L) fixed Or  
3 ph 98-133V(L-N) /170-230V(L-L)adjust Or  
21(L-N)/36V(L-L) can be customized.
- ◇ Frequency: 400hz /300-500hz adjustable
- ◇ Voltage Regulation:+/-1%
- ◇ Frequency Regulation:+/-0.1%
- ◇ Distortion:clean      sine      wave
- THD<3%@Linear load

### ● Reliability&Efficiency

- ◇ Mean Time Between Failure(MTBF) 30,000H
- ◇ Mean Time to Restoration(MTTR)< 30 min
- ◇ Overall efficiency $\geq 80\%$

### ● Standards

- ◇ EN60204-1
- ◇ IEC62321
- ◇ EN61000-6-3

