

ACSW Series Programmable AC Power Source

Acsoon® ACSW series Programmable AC Power Sources have the ability to simulate the AC voltage and frequency used in all countries. They are excellent instruments for R&D, design production testing/evaluation, and QA verification. In addition, the frequency range covers 500 Hz, making these products ideal for commercial and defense avionics applications.

The ACSW series delivers maximum rated power for any adjustable output voltage up to 300Vac (L-N) / 520Vac (L-L) for 3 phase units, and at any adjustable frequency between 40Hz to 500 Hz.

It integrates IGBT made by Mitsubishi, Siemens, and Infineon, and combines microprocessor and ARM & DSP control design together for quick response and higher reliability and parallel operation.

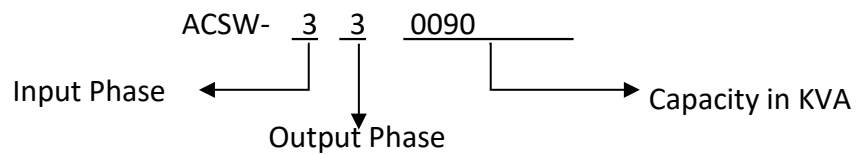
Main Features

- 10 memory locations for easy test setup and recall
- Double protection with hardware and software
- Free Instrument control software available
- Simulate transient conditions
- Programmable starting, voltage and current limit
- LCD to monitor voltage, current, frequency, power and power factor
- Built-in RS232, RS485, communication port, suitable for remote monitoring.
- Capable for each phase unbalance loads.



Models Selection

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



Acsoon® ACSW series power supply are available with the following capacities(parallel operation is available):

Single phase output: 1KVA ~ 100KVA

Triple phase output: 1KVA ~ 450KVA

Specification

● Capacity

✧ 1KVA to 450KVA

● Overload

✧ 120% 10 min,150% 30s

● Input

✧ Voltage: 1 phase 120V+/-20%,1 phase

220V+/-20%,3 x127V/220V+/-20%,

3 x220V/380V+/-20% 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)

● Protection

✧ Over/under voltage

✧ Over current,Over load

✧ Over temperature,Short circuit

✧ Voltage difference between each phase<3V

✧ Additional output contactor(Option item)

● Display: LCD Vision

✧ Voltage,Current,frequency,Power/PF

● Output

● Working condition

- ◇ Voltage:1 phase 10-150V/20-300V adjustable
- ◇ 3 phase 17-260V/34-520V adjustable(L-L)
- (Set your desired voltage)
- ◇ Current:0-Limit (Set your desired current)
- ◇ Frequency:50Hz/60Hz/400hz/40Hz-500Hz
- ◇ Voltage Regulation:±1%≥100V
- ◇ Frequency Regulation:±0.1%
- ◇ Crest:1.414±0.1
- ◇ Distortion: THD<3%@ linear load≥100V
- ◇ Phase Shift:
 - 120°±1°(no load/ balance load)
 - 120°±3°(33% unbalance load)
 - 120°±4°(100% unbalance load)
- ◇ Temperature:-10 to 45°C
- ◇ Humidity:10-95%
- ◇ Noise:< 65dB within 1 meter
- ◇ IP20/IP32
- ◇ Altitude<1800m

● **Reliability&Efficiency**

- ◇ Mean Time Between Failure(MTBF) 50,000H
- ◇ Mean time to restoration(MTTR)< 30 min
- ◇ Overall efficiency≥85%

● **Standards**

- ◇ EN60204-1
- ◇ IEC 62321
- ◇ EN61000-6-3

● **Features**

- It can perform 10 sets of different voltage, frequency, rise time and operation time settings, and can conduct continuous multiple cycle tests
- Number of storage groups: common parameter storage, with 10 groups of memory. Common parameters (voltage, frequency) can be stored for easy use
- It can realize automatic cycle test and fault information storage, and can store 9 groups of fault records, which is convenient to query specific fault occurrence time and fault type

