



- **ACSOON ACSW** series AC Power Supply has the ability to simulate the AC voltage and frequency used in all countries, is one excellent instrument for research, design and production testing/evaluation. In addition, the frequency range covers 45Hz to 400 Hz or widely 800Hz, making it ideal for commercial and defense avionics applications.
- **ACSW** static frequency converter as one ac power source integrate IGBT SPWM modulation, and combines micro processor and ARM & DSP control for quick response and high reliability.

Application

- Testing and operating electrical equipment
- LV Lab power supply
- Electric test power supply
- Avionics test ac power source
- Transformers, Motors and pumps
- Quality electrical energy on railway and ships

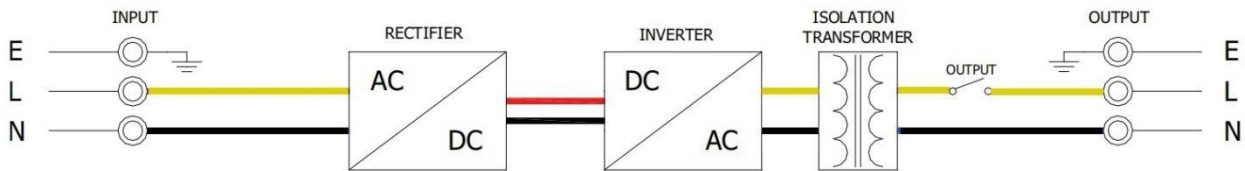
Main Features

- Isolated output transformer, suitable for any unbalance loads. Every single phase can be used independently
- It can perform 10 sets of different voltage, frequency, operation time settings, and can conduct continuous multiple cycle tests
- It has error information storage, can store 9 groups of fault records, which are convenient to query specific fault occurrence time and fault type
- Pure sine wave sinusoidal output Low harmonic distortion
- Built- in RS232, RS485, communication port, suitable for remote monitoring.
- Capable for each phase unbalance loads, with hardware and software double protection

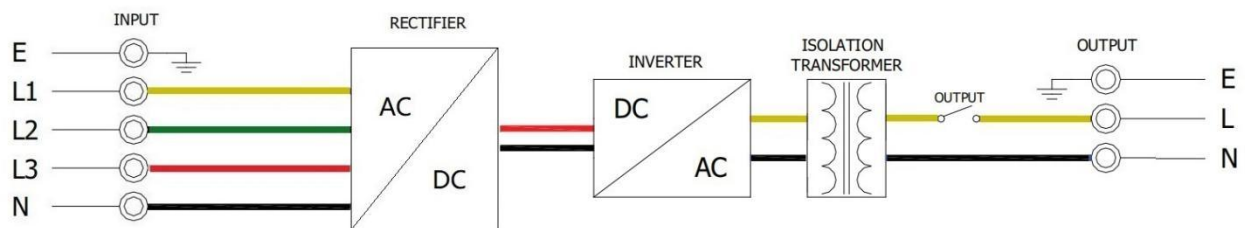
ACSOON[®] ACSW series power supply single unit are available with the following capacities:

- **Single phase output: (Select one individual KVA)**
1kva, 2kva, 3kva, 5kva, 10kva, 15kva, 20kva, 30kva, 45kva, 60kva, 75kva, 100kva
- **Three phase output: (Select one individual KVA)**
1kva, 3kva, 6kva, 10kva, 15kva, 20kva, 30kva, 45kva, 60kva, 75kva, 100kva, 150kva, 200kva, 300kva, 400kva

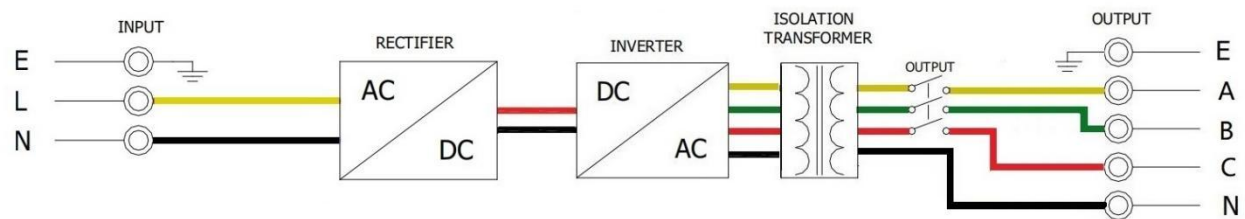
Circuit Block Diagram for ACSOON 1 Phase & 3 Phase SFC



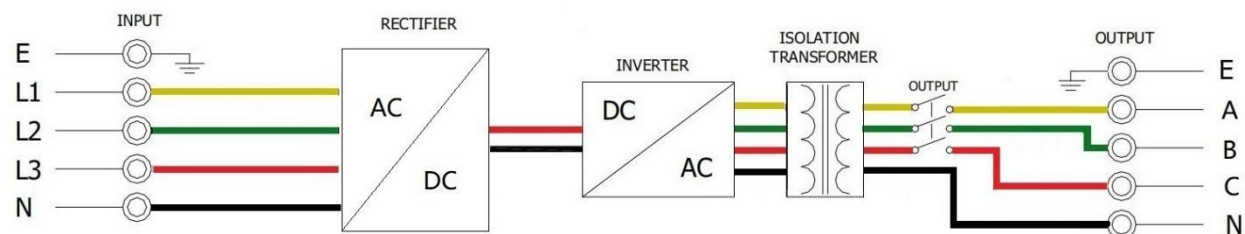
SINGLE PHASE INPUT - SINGLE PHASE OUTPUT



THREE PHASE INPUT - SINGLE PHASE OUTPUT



SINGLE PHASE INPUT - THREE PHASE OUTPUT



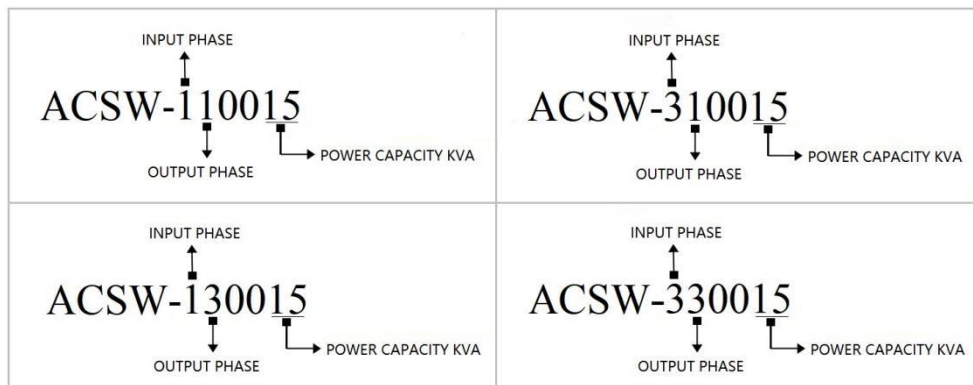
THREE PHASE INPUT - THREE PHASE OUTPUT

ACSOON ACSW Series SFC Specification Data sheet

INPUT	
Number of Phases	Single Phase / Three Phase
Nominal Input Voltage	110V 120V 220V 230V 240V / Single Phase ; 208, 380V, 400V, 415V, 440V,480V / Three Phase
Voltage Tolerance	± 15%
Nominal Frequency	50Hz / 60Hz
Frequency Tolerance	40Hz - 70Hz
OUTPUT	
Number of Phases	Single Phase / Split Phase / Three Phase
Nominal Output Voltage	110V 120V 220V 230V 240V / Single Phase ; 208, 380V, 400V, 415V, 440V,480V / Three Phase
Voltage Adjustable	0-150V (L-N), 0-300V (L-N); 0-260V (L-L), 0-520V (L-L)
Nominal Output Frequency 50Hz / 60Hz	
Frequency Adjustable	45Hz - 400Hz or widely 800hz customized
Voltage Regulation & Stability +/-1% FS	
Frequency Stability	+/-0.1%FS
LCD Digital Display	LCD digital displaying: Frequency, Voltage, Current, Power Factor / Power (watt) and Time.
Manual buttons on panel	Function selection buttons,Knob for voltage and frequency adjust, lock, stop/stat indicator etc
Distortion	Clean sine wave THD <3% @ Linear loads
Input Power Factor	≥0.8
Overall Efficiency	≥85%
Crest Factor	1.414±0.1
Comm. Interface	Modbus communication port RS232 / RS485
10 sets of voltage, frequency values and operation time settings, faulty of event storage and read.	
Protection	Over current, over load, over heat, short circuit,over heat Protections and alarm.
Overload Capacity	120% for 10 minutes, 150% for 1 minute
IP Class	Standard IP20/IP21 indoor. IP32 & IP54 as optional
MTBF	50,000 Hrs
MTTR	<30Min
Humidity	10-95%
Noise	Less than 65dB within 1 meter
Operating Temperature	-10 to 45°C
Standards	EN60204-1, IEC 62321 & EN61000-6-3

Models Selection Designate

The ACSOON® ACSW series power supply model designation are shown below



Metal Enclosure



The system shall be housed in Sheet Steel cabinet with IP20/IP21 protection and shall be powder coated in RAL7035 Grey shade. The cabinet shall be an upright, free standing, steel cabinet with removable side covers, The cooling fans shall be provided as per manufactures' standard and hinge mounting front door. The construction and layout shall be kept such that there is an easy access to any component in the equipment. transformers are mounted on the bottom plate of the cabinet. The terminals for Mains Input & Output are provided on the interior side of the cabinet. Cable entry shall be provided from at the bottom of the cabinet. (PS. The terminals for Mains Input & Output are provided on the rear side for rack mounted converter, cable entry shall be provided at the rear side of the converter)