



■ **ACSOON ACP400** series AC Power Supply is one of the most popular 400Hz static frequency converter, which is designed to change Mains electricity 50hz/60hz power to 400Hz aircraft power. It is one of ideal external power supply for aircraft engine start and aerospace equipment ,with robust design and higher reliability. ACSOON ACP400 series widely used for aircraft daily test and maintenance, it is also used for military equipment as one quality 400hz power source.

■ **ACSOON ACP400** delivers three phase 115V/120V 400Hz aircraft power with clean sine wave output, and excellent voltage stability in line and load regulation, high efficiency and low harmonic distortion.

Main Features

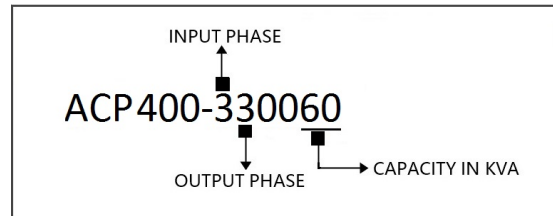
- Auto voltage compensation system, ideal voltage at aircraft connector
- Self diagnose system which would show error code on digital display
- 10 events memory stores
- Pure sine wave, sinusoidal output
- Completely protection and alarm for over voltage, over current and overheating, etc
- Eco-friendly, lower power consumption with high efficiency
- 28VDC military interlock (optional for aircraft power supply)

ACSOON® ACP400 series 115V 400Hz AC power supply is available with the following capacities:

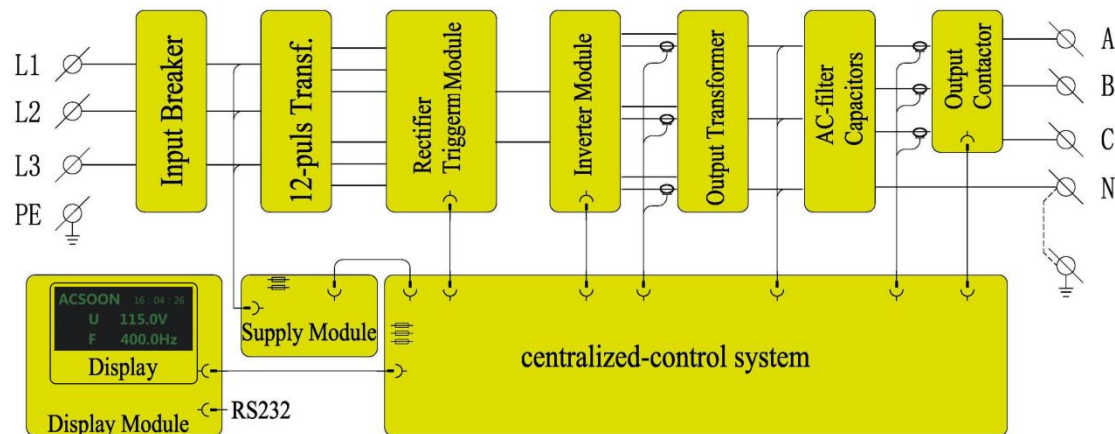
- Three phase AC output: 30kva,45kva,60kva,90kva,100kva,150kva,200kva and 300kva

Models Selection Designate

The ACSOON® ACP400 series power supply model designation are shown below



Circuit Block Diagram



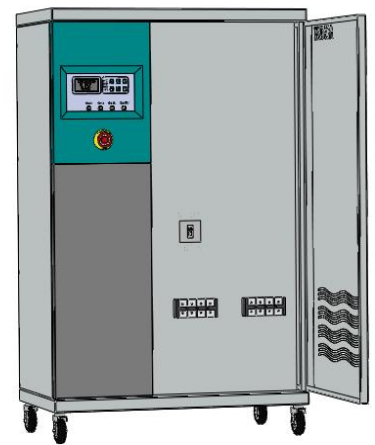
TYPE A



TYPE A



TYPE B



TYPE B

TYPE A -30KVA / 45KVA

TYPE A - 60KVA / 75KVA

TYPE B - 100KVA / 150KVA

Depth-1100mm

Depth-1320mm

Depth - 600mm

Width - 480mm

Width - 600mm

Width - 1100mm

Height - 1300mm

Height - 1370mm

Height - 1750mm

SOLID STATE STATIC FREQUENCY CONVERTER

ACP400 SERIES

ACSOON POWER SOLUTIONS' PROVIDER

ACSOON ACP400 Series Specification Data sheet

INPUT	
Number of Phases	Three Phase
Nominal Input Voltage	208, 380V, 400V, 415V, 440V, 480V / Three Phase
Voltage Tolerance	± 15%
Nominal Frequency	50Hz / 60Hz
Frequency Tolerance	40Hz - 70Hz
Input Power Factor	≥0.9
OUTPUT	
Number of Phases	Three Phase Four Wire
Nominal Output Voltage	115V, 120V / Single Phase ; 200, 208V / Three Phase
Voltage Adjustable	100-130V (L-N)
Nominal Output Frequency 400Hz	
Frequency Stability	+/-0.01%FS
Voltage Regulation	+/-1% FS
Voltage Stability	+/-1%FS
Digital Display	VFD digital display: Frequency, Voltage, Current, Power Factor / Power (watt), Time Setting
Voltage Compensation	Auto 0-10V
Distortion	VTHD <2%, Pure sine wave output
Phase Angle	120° ± 1° for balanced load, 120° ± 2° for 30% unbalanced load
Overall Efficiency	≥ 93%
Crest Factor	1.414 ±3%
Circuit Modulation	SPWM, 12 Pulse Rectification
Protection	Complete Over current, over load, over heat, short circuit, Protections and alarm.
Overload Capacity	125% for 10 min, 150% for 60s and 200% for 30s
IP Class	IP54
MTBF	50,000 Hrs
MTTR	<30Min
Humidity	10-95%
Noise	Less than 65dB within 1 meter
Operating Temperature	-20 to 50°C
Standards	GJB572A-2006, GJB181A-2003, ISO6858, MIL-STD-704F, EN61000