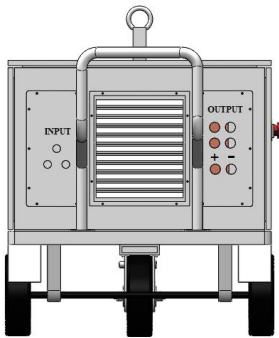


SOLID STATE GPU STATIC FREQUENCY CONVERTER

GPU400 COMBI SERIES

ACSOON POWER SOLUTIONS' PROVIDER



■ **ACSOON GPU400 Combi** series AC&DC Power Supply is one of the most popular static frequency converter, which is designed to change Mains electricity 50hz/60hz power to 115V 400Hz & 28VDC aircraft power. It is one of ideal external power supply for aircraft engine start and aerospace equipment ,with compact size and higher reliability. ACSOON GPU400 Combi series is widely used for aircraft daily test and maintenance, it plays one important role at Hangar and Apron with Pit system as one quality external power source.

■ **ACSOON GPU400 Combi** AC&DC delivers three phase 115V/120V 400Hz and 28VDC aircraft power with clean sine wave output, and excellent voltage stability in line and load regulation. high efficiency and low harmonic distortion.

Main Features

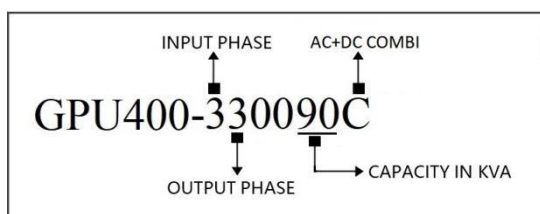
- Auto voltage compensation system, ideal voltage at aircraft connector
- Self diagnose system which would show error code on digital display
- 10 events memory stores
- Pure sine wave, sinusoidal output
- Completely protection and alarm for over voltage, over current and overheating, etc
- Eco-friendly,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

ACSOON® GPU400 Combi series AC&DC power supply is available with the following capacities:

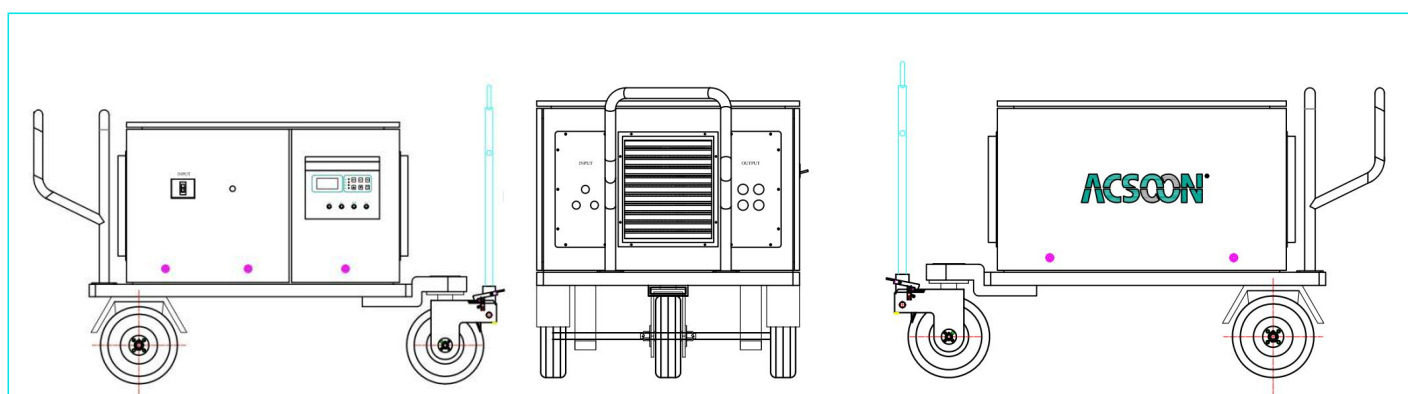
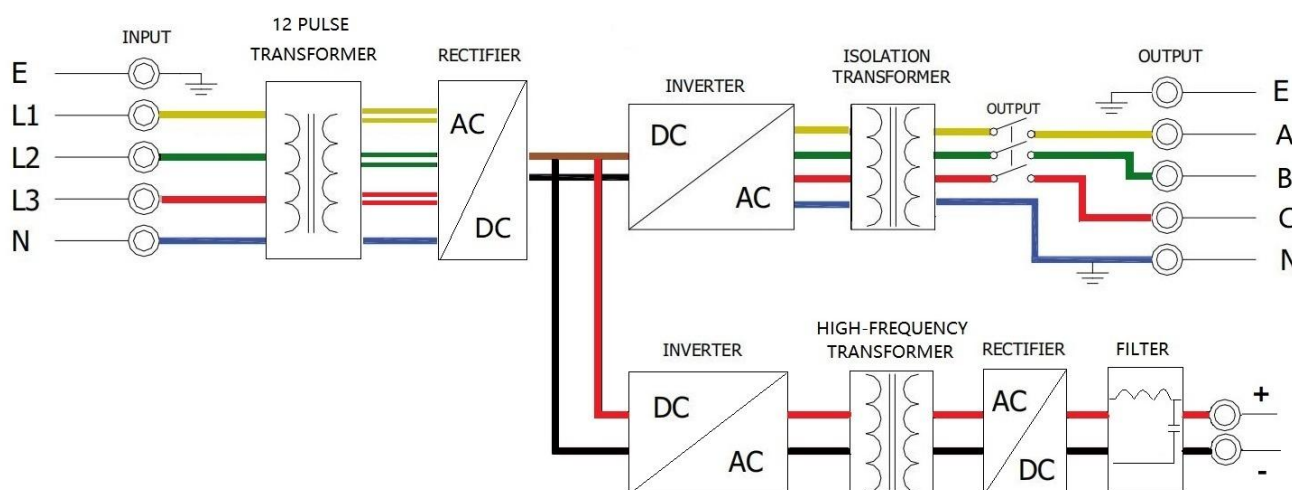
- Three phase AC output: 30kva,45kva,60kva,90kva,120kva,180kva
- DC output: 28.5V 300A, 400A,500A,600A,800A,1000A

Models Selection Designate

The ACSOON® GPU400 Combi series model designation are shown below



Circuit Block Diagram



The system shall be housed in Sheet Steel cabinet on Trolley with IP54 protection and shall be powder coated in RAL7035 Grey shade. The cooling fans shall be provided as per manufactures' standard and 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 cables connectors for Mains Input & Output are provided on the front side of the trolley.

ACSOON GPU400 Combi 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 AC	Three Phase Four Wire
Nominal Output Voltage	115V(L-N) 200V(L-L) AC & 28.5VDC (Ripple≤0.25V)
Voltage Adjustable	100-130V (L-N) AC & 20V-32V DC
Nominal Output Frequency 400Hz	
Frequency Stability	+/-0.01%FS
Voltage Resolution: 0.1V, Frequency Resolution: 0.1Hz, Current Resolution: 0.1A	
Voltage Stability in Line Regulation: +/-0.5%FS; Voltage Stability in Load Regulation: +/-1%FS	
Digital Display	VFD digital display: Frequency, Voltage, Current, Power Factor / Power (watt), Time Setting
Voltage Compensation	Auto 0-10V
Distortion	VTTHD <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