

Static (FIXED) Voltage / Frequency Converter

SAF Series 1Phase 1KVA~10KVA



Features



- Constant Voltage Constant Frequency
- **50Hz ↔ 60Hz, 50Hz ↔ 400Hz, 60Hz ↔ 400Hz, 400Hz ↔ 400Hz**
- **50Hz / 60Hz Output Frequency Selectable**
- Output Voltage Adjustable
- Compact Size and User-friendly Design with LED & LCD display.
- Unique Air-Cooling System, Optional AVR for Wider Input Voltage Range and Operating in Harsh Environment.
- Front Side Operation Design for easy installation and maintenance.
- Full Galvanic Isolated. No Electric Mains Disturbances; Voltage Fluctuation and Low Harmonic Distortion.
- Single Control Board Design for Easy Maintenance Service.
- Power Factor Correction
- MTBF (Mean Time Before Failure) > 80,000hrs
- MTTR (Mean Time to Replacement) <25mins
- Full Protection & Audible Alarm for
 - ◆ Short Circuit Protection
 - ◆ Overload Constant Power Protection
 - ◆ Static Switch Protection
 - ◆ Over Temperature Protection
 - ◆ Two Stage Phase Lock Loop
- Generator Friendly
- Built-in RS232 Communication Interface, SNMP Intelligent Slot (Option)
- Optional Bundle Software Automatically Save Your Valuable Files before Auto shutdown
- CE Approved

Application

- Alarm / Security Monitoring Systems
- Auto-test Equipment
- Factory Automation Equipment
- Laboratory
- Measuring Instruments
- Medical Equipment
- OA Equipment
- Sophisticated Instruments
- Sophisticated Monitoring Systems
- Switching Power Supply

400Hz:

- Airport Ground Power Facilities
- Any equipment / instruments have 400Hz Frequency
- Military Communication Equipment
- Military System Diagnostics, include Air Force, Army, Navy
- Navigation
- Telecommunication Systems

Technical Specification

MODEL		SAF-1101	SAF-1103	SAF-110375	SAF-1105	SAF-1106	SAF-1108	SAF-1110
CAPACITY	KVA	1KVA	3KVA	3.75KVA	5KVA	6KVA	8KVA	10KVA
	KW	0.7KW	2.1KW	3KW	4KW	4.8KW	6.4KW	8KW
INPUT								
Phase	1Ø 2W+G (option: 3W+G)						1Ø 2W+G (option: 3W+G) or 3Ø 3W+G or 3Ø 4W+G	
Voltage (select one)	110V System: 100V,110V,115V,120V 220V System: 200V,220V,230V,240V -15% +25%			110V System: 100V,110V,115V,120V 220V System: 200V,220V,230V,240V -15% +25% or -30% +40% c/w AVR option		110V System: 100V,110V,115V,120V 220V System: 200V,220V,230V,240V -15% +25%, or -30% +40% c/w AVR option; 3Ø4W+G 380V Y -25% +30%		
Frequency	50 or 60Hz ±5Hz (Option: 400Hz)							
OUTPUT								
Phase	1Ø 2W+G (option: 3W+G)							
Voltage (select one)	100, 110, 115, 120, 200, 208, 220, 230, or 240V (±5% adjustable)							
Voltage Regulation	± 1%							
Frequency (select one)	50 or 60Hz (Option: a. 400Hz, b. 50/60Hz Selectable)							
Frequency Stability	±0.5% (Free Running)							
Transient Response	±3% (100% Load Variation)							
T. H. D.	<3% at 0~100% Linear Load							
Waveform	Pure Sine Wave							
Power Factor	0.7~1, lag							
Crest Factor	3 : 1							
Efficiency	>90%							
PROTECTION								
Over/Under Voltage	Alarm							
Short Circuit	Current Limited and Cut-off and Fuse and Breaker							
Overload	>150% / Auto Shutdown							
EMI/EMC	EN50091-2, CE Approved							
AUDIBLE ALARM								
Mains Failure	Beeping every 4 seconds and mute after 90 seconds							
Overload	Continuously							
Unit Fault	Continuously							
INDICATORS								
LCD Display	Real Time Stats, I/P&O/P Voltage and Frequency, Loading %, History record							
LED Indicators	Utility LED (Green), Inverter LED (Green), Fault LED (Red), Overload (Yellow) & Warning							
COMMUNICATIONS								
DB9 Connector	RS-232 Interface; Power monitoring software (Option)							
SNMP Intelligent Slot	Power management from SNMP manager and Web browser (Option)							
ENVIRONMENT								
Operating Temp.	0°C ~ 40°C (32 ~ 104°F)							
Relative Humidity	0~90% (Non-condensing)							
Audible Noise	< 45dB @1meter							
PHYSICAL								
Size (W*D*H/mm)	180*430*308	180*540*500	230*578*685			480*340*845		
Net Weight (Kgs)	31	65	70	89	107	112	116	

* All specifications are subject to change without prior notice. * Custom-made specifications welcome.