



STATIC FREQUENCY CONVERTORS



50FC60 - 60Hz static frequency converter

60Hz constant output frequency - Input frequency - 50Hz (47Hz to 53Hz)

With MODBUS-BMS, communication interface

5KVA - 400KVA

DSP controlled IGBT technology

50FC60 - 101 | 50FC60 - 301 | 50FC60 - 303

Selectable / Variable output voltage and dual output option also available.

MANUFACTURER & EXPORTER SINCE 1998

www.ArviUPS.com

Optimise production process to improve Productivity and profitability...

Galvanic isolation offers

Comprehensive Protection and High Availability.

Mains grade raw power contains impurities and large percentages of harmonics injected into the line by various non-linear loads. The common problem of neutral drift can produce considerable increase in output voltage and permanently destroy your critical loads and data.

Isolation transformers increase load protection and ensure human safety by isolating the AC leakage current from developing a potential between the input and ground. Isolated output enhances the attenuation of common mode noise by increasing the impedance between the input and output.

Provides protection of loads against lightning. Galvanic isolation via transformer is the onlyway to safely protect loads from lightning. It provides protection from high energy transients, which are clamped at the AC input from propagating to the output.



Galvanic Isolation for Comprehensive Power Protection

Advanced Active Power PFC SFC

Features

Power Factor Corrected
 Digital Signal Processor
 Isolation Transformer

Power Factor Correction

- Reduces the running cost in terms of electricity bill
- Prevents the overrating of electrical wire
- Reduce reflected harmonies back to the source
- Savings in sizing of utility transformer & generator

Technology

DSP technology IGBT inverter - IGBT converter

Toplogy

Bifilar PWM switching

Ideal Power-conditioner

- Constant Frequency source
- Premium Quality Galvaically isolated Power
- Power Factor Corrector

100% Indigenous design



IGBT based PFC rectifier



Industrial Grade
Designed for Harsh Environment

100% Indigenous Factory - With In-House R&D.

Application

Aerospace, Industrial application, Special purpose machines, Imported machines using 60Hz.

- 400Hz FC400 for Aviation applications / simulation and testing
- 60Hz FC60 for special purpose equipment / simulation and testing
- 60Hz FC60 for utility power supply is 50Hz but the machine supply required is 60Hz
- 50Hz FC50 for utility power supply is 60Hz but the machine supply required is 50Hz

Uninterupted Premium Quality Power using Power-Conditioning topology

The factors contributing to the pre-mature failure of electrical gadgets and evantually the system failure is not limited only to voltage fluctuations but also the poor quality of power. Hence, importance should not only be given for power availability but also for quality power availability.



Arvi SFC is a complete Power-conditioner & Power Factor Corrector

Optimises the product life & process uptime by 35%-40%.

- Constant voltage, frequency, High Grade Premium quality power.
- Galvanic isolation at the output.
- Operating ambient temperature 0-45 degrees.
- Overload handling capability of 150% for 1 minute.
- High surge handling capability.

Industrial Grade design

- Tight voltage and frequency regulation.
- Active boost topology for low noise.
- Capable to handle reactive loads.

Input

Any voltage (110VAC/200VAC/400VAC) Any frequency (50Hz / 60Hz / 400Hz) AC/DC 1Ø/3Ø

- Fully DSP controlled
- IGBT technology
- Industrial grade design

Output

Any voltage (110VAC/200VAC/400VAC) Any frequency (50Hz / 60Hz / 400Hz) 1Ø/3Ø Selectable output voltage / Dual output

Designed for Harsh environment









MODBUS-BMS, communication interface

BMS - Building management system / BAS - Building automation system / IAS - Industrial system automation System, is a computer-based control system installed in buildings that controls and monitors the building's energy usage, lighting, saftey, Heating/cooling, power systems, security and surveyellence etc.

FC-400 is compatibility to communicate with other equipment, notify faults or power outage to carry-out preventive / corrective action are some of the unique benefits of BMS.





Winner of the Best in-house R&D among the UPS manufacturer in India by SoftDisk for the year 2018-19

Technical SpecificationsSFC - Static Frequency converter

TECHNOLOGY DSP based, using IGBT, Industrial grade design. MODELS SOFC60-1011 SOFC60-3011 SOFC60-303 RATING SKVA - 400KVA NPUT		
RATING INPUT Input Voltage IIOVAC, 220VAC, 400VAC or any voltage as per customer requirement, 10/30, DC option is also available. Input Frequency Sohz (47Hz - 53Hz) Input Protection Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs of fast acting fuses. OUTPUT OUTPUT Output Voltage IIOVAC, 220VAC, 400VAC or any voltage, 10/30, (As per custom requirement) Selectable / Variable output voltage and dual output option also available. Regulation (±)1% Output Frequency 60 Hz ± 0.1Hz Waveform True Sinewave Total Harmonic Distortion Linear Load 1.5% Non Linear Load <1.5% Non Linear Response Remains within +/- 5% 8 recover to normal within 20 msec Over Load Capacity 100% Continuous 125% 1Minute 200% 30 secs Crest Factor 3.1 Mode of Operation Designed for Continuous operation with high surge handling. Inverter Protection Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs of fast acting fuses, high speed pulse by pulse electronic device protection over voltage / under voltage protection, Electronic over current trip. ALARMS Input / Low / Fail · Output overload · Over temperature LED Indications (Single LED with multi function) Inputs ON · FC ON · Overload User Friendly LCD Displays the following parameters	TECHNOLOGY	DSP based, using IGBT, Industrial grade design.
INPUT Input Voltage Input Voltage DC option is also available. Input Frequency 50Hz (47Hz - 53Hz) Input Protection Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs & fast acting fuses. OUTPUT Output Voltage I10VAC, 220VAC, 400VAC or any voltage, 10/30, (As per custom requirement) Selectable / Variable output voltage and dual output option also available. Regulation (±) 1% Output Frequency 60 Hz ± 0.1Hz Waveform True Sinewave Total Harmonic Distortion Linear Load < 1.5% Non Linear Load < 5% Transient Response Remains within +/- 5% 8 recover to normal within 20 msec Over Load Capacity 100% Continuous 125% IMinute 200% Continuous 125% IMinute 200% Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs of fast acting fuses, high speed pulse by pulse electronic device protection over voltage / under voltage protection, Electronic over current trip. ALARMS Input / Low / Fail * Output overload User Friendly LCD Displays the following parameters	MODELS	50FC60-101 50FC60-301 50FC60-303
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100% 125% 1Minute 200% 30 secs Crest Factor 3:1 Mode of Operation Designed for Continuous operation with high surge handling. Inverter Protection Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs & fast acting fuses, high speed pulse by pulse electronic device protection over voltage / under voltage protection, Electronic over current trip. ALARMS Input / Low / Fail • Output overload • Over temperature LED Indications (Single LED with multi function) Inputs ON • FC ON • Overload User Friendly LCD Displays the followirp parameters	Transient Response	Remains within +/- 5% & recover to normal within 20 msec
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Crest Factor Mode of Operation Designed for Continuous operation with high surge handling. Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs & fast acting fuses, high speed pulse by pulse electronic device protection over voltage / under voltage protection, Electronic over current trip. ALARMS Input / Low / Fail • Output overload • Over temperature LED Indications (Single LED with multi function) • Inputs ON • FC ON • Overload User Friendly LCD Displays the following parameters	125%	1Minute
Mode of Operation Designed for Continuous operation with high surge handling. Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs & fast acting fuses, high speed pulse by pulse electronic device protection over voltage / under voltage protection, Electronic over current trip. ALARMS Input / Low / Fail • Output overload • Over temperature LED Indications (Single LED with multi function) Inputs ON • FC ON • Overload User Friendly LCD Displays the following parameters	200%	30 secs
Inverter Protection Advanced Electronic Protection for device safety backed up with MCB's/ MCCBs & fast acting fuses, high speed pulse by pulse electronic device protection over voltage / under voltage protection, Electronic over current trip. ALARMS Input / Low / Fail • Output overload • Over temperature LED Indications (Single LED with multi function) Inputs ON • FC ON • Overload User Friendly LCD Displays the following parameters	Crest Factor	3:1
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• Input / Low / Fail • Output overload • Over temperature LED Indications (Single LED with multi function) • Inputs ON • FC ON • Overload User Friendly LCD Displays the following parameters		voltage / under voltage protection, Electronic over current trip.
LED Indications (Single LED with multi function) • Inputs ON • FC ON • Overload User Friendly LCD Displays the following parameters	ALARMS	
• Inputs ON • FC ON • Overload User Friendly LCD Displays the following parameters		• Input / Low / Fail • Output overload • Over temperature
User Friendly LCD Displays the following parameters	LED Indications (Single LED with multi function)	
		• Inputs ON • FC ON • Overload
• Input Voltage • Output Voltage • Load current • Output Frequency	User Friendly LCD Displays the followi	ng parameters
		Input Voltage Output Voltage Load current Output Frequency

^{*}Specifications are indicative to our standard models and are subject to change without notice.

Approved vendor for

Our esteemed customers have been using Arvi SFC for various applications across the country from past 19yrs and have certified the performance of the same.

































PARTIAL LIST













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