

Smart Frequency Conversion  for Seamless Operations

# STATIC FREQUENCY CONVERTER

5KVA – 500KVA



**~AC⚡DC~**  
POWER SOLUTIONS



 [sales@technovisionenergy.com](mailto:sales@technovisionenergy.com)

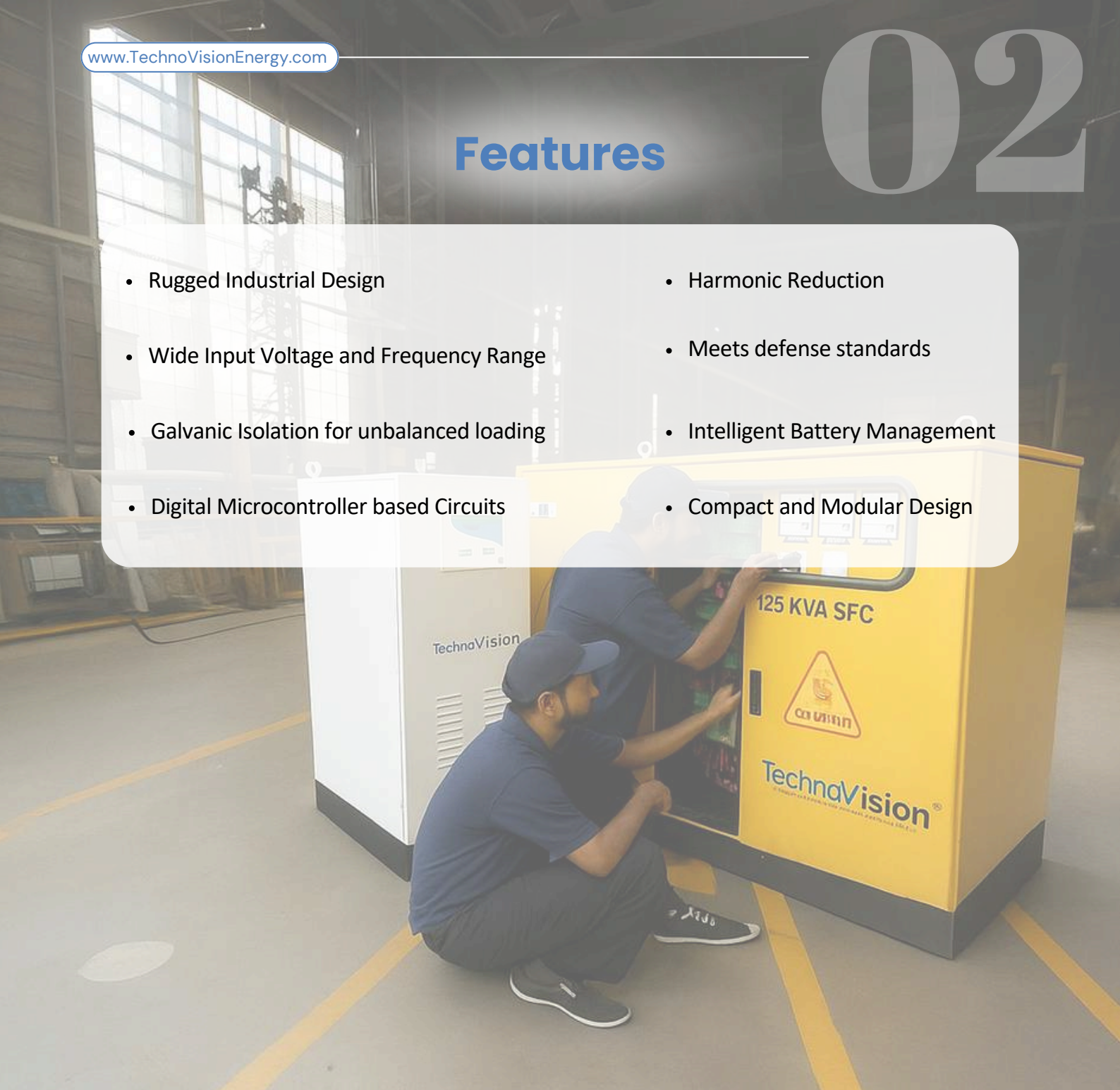
 [www.TechnoVisionEnergy.com](http://www.TechnoVisionEnergy.com)

 +91 75070 53131

+91 93701 32711

## Features

- Rugged Industrial Design
- Wide Input Voltage and Frequency Range
- Galvanic Isolation for unbalanced loading
- Digital Microcontroller based Circuits
- Harmonic Reduction
- Meets defense standards
- Intelligent Battery Management
- Compact and Modular Design



## Advantages



High Uptime



Low Maintenance



Precise Power



Safeguards load

## Applications



Oil & Gas



Power



Automobile



Plastic Moulding



Defence



Laser Cutting



CNC Machines



Food Processing



Healthcare



Precision Engineering



Aerospace



Mining

## Protections

- Overload
- Overvoltage
- Fault Isolation
- Harmonic Distortion

## Technical Specifications

Specifications	Technical Details
KVA Rating	5KVA - 500KVA
Technology	DSP based double conversion digital technology
Nominal input voltage	220, 415, 480VAC, +/- 10% (3phase, 4 wire + ground)
Nominal Input frequency	50Hz, 60Hz, 400Hz +/- 5%
Accurate output voltage	110, 220, 415, 480VAC +/- 1%
Accurate output frequency	50Hz, 60Hz, 400Hz +/- 0.5%
Output power factor	0.8 lagging to Unity
Transient response	Output stays $\pm 5\%$ with 20 ms recovery for 100% load step
Inverter technology used	PWM, IGBT Based
Output overloading	100% for continuous 120% for 1 mins
Output waveform	Pure Sine Wave
Crest factor	3:1
DC – AC conversion efficiency	Greater than 90%
Isolation Transformer	Galvanic Isolation Transformer is built-in the system
Operating & Storage temp	0 to 40 deg C
Humidity range	95% Rh (non condensing)
Total Harmonic Distortion	Less than 5% at linear load
Generator compatible	Yes
Alarms Warning	<ul style="list-style-type: none"><li>• Input Low</li><li>• Input High</li><li>• O/P Low</li><li>• O/P High</li><li>• O/P over load</li><li>• Trip</li><li>• Internal Temperature monitoring &amp; Trip</li></ul>
Audible noise	Less than 60 db at 1 meter.
Cooling facility	Forced air cooling & Natural air cooling.
Chassis design	IP-21
Application	Continuous ON for Industrial load
Monitoring Indications & Protections	<ul style="list-style-type: none"><li>• Mains Normal</li><li>• Inverter Normal</li><li>• I/P Voltage (LCD)</li><li>• I/P Current (LCD)</li><li>• I/P Frequency (LCD)</li><li>• O/P Voltage (LCD)</li><li>• O/P Current (LCD)</li><li>• O/P Frequency (LCD)</li><li>• Mains high / Low</li><li>• Single phasing</li><li>• Overload</li></ul>

"Product images and technical specifications are subject to change as a result of continuous development. Any customizations required to meet special applications can be provided by us."





## Core Purpose



Protect Mission Critical Equipments Backed by Technology and Trust

---

## Core Values



Responsive to  
Change

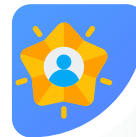


Growth through

- Merit and Hard Work
- Solution Oriented Approach



Human and  
Machine Safety



Customer  
Centricity

## OUR PRODUCTS

### AC Solutions

- Industrial Inverters
- Static Voltage Stabilizers
- AVR 100 KVA to 2000 KVA
- Industrial UPS - 1KVA to 500KVA
- Isolation Transformer - 1KVA to 2000KVA
- Static Frequency Converter - 1KVA to 500KVA
- Servo Controlled Voltage Stabilizers - 1KVA to 300KVA

### DC Solutions

- Battery Chargers – SCR /IGBT technology (10A to 1000A)
- Battery Chargers – SMPS technology (10 A to 500A)
- DC rails
- DC-DC converters
- Battery jump starters
- Solar Charge Controllers
- Lithium battery based Solutions

## CONTACTS

 [www.TechnoVisionEnergy.com](http://www.TechnoVisionEnergy.com)



 93701 32709, 93701 32710, 93701 32711, 75070 53131

 [sales@technovisionenergy.com](mailto:sales@technovisionenergy.com)

