

ENERWAVE SFC



5kVA to 400kVA

THREE PHASE

Reliable and Efficient Frequency Conversion



Answering All Power Needs



www.enertechups.com

30 Years Experience In Manufacturing And Development In Cutting Edge Inverter And Converter Technology.

About Us



Enertech® UPS Pvt. Ltd is industry leading electrical and power electronic product designer and manufacturer since over 30Years.

Enertech® provides complete Power Management solutions for Renewable & Power continuity to meet your needs of continuous Power with its Cutting-edge Inverter, Converter Technology

The Enertech® products cover main **Application** : Industrial and commercial energy storage with renewable integration Solar PCU, Industrial UPSs, Battery Charger and Static Frequency Converter

The Enertech® Product are design with 100% Indigenous technology using the in-house R&D setup strive for constant success in leveraging technological innovation are manufactured at our Pune India.

DESIGN

QUALITY

SERVICES

VALUE



ABOUT ENERWAVE SERIES

SureWave Static Frequency Converters are commonly is designed to change conventional **50 Hz or 60 Hz or 400Hz electrical** energy to virtually any other frequency.

Feature-Loaded SFC

- Compatible with both 50Hz and 60Hz power supply network.
- **110VAC, 400VAC, 50HZ 60HZ, 400HZ with voltage and frequency Conversion. (optional)**
- Single and three phase models, some with phase conversion
- DSP Based Processor designed with IGBT technology and Inbuilt Isolation Transformer for Isolated output
- Suitable for unbalance loads, every single phase can be used independently.
- Suitable to handle reactive loads.
- Galvanically isolated, low harmonic distortion. Pure sine wave, sinusoidal output.
- Display real-time data: voltage, current, frequency and power.
- Industrial grade design Enclosure IP-20 (Optional up to 54)

The EnerWave SFC combines Enertech's years of experience with market trends and knowledge and has driven the need to create the next generation Static Frequency Converter – Enertech's EnerWave SFC.

Additionally, the EnerWave SFC is integrate IGBT and combines with DSP microprocessor and PLC control design with Inbuilt Isolation Transformer stabilize the frequency to allow the correct operation of sensitive equipment when the supply is not sufficiently regulated.

Also, the EnerWave SFC can convert the supply voltage to a different voltage to match the requirement.

How it works

The system functions by converting the input AC power through a sine-wave rectifier to a DC link and then through an AC sine-wave inverter to produce a clean, full sine-wave output at the new frequency and voltage.

The EnerWave SFC is extremely flexible in terms of paralleling with other voltage sources, either generators.

PRODUCT APPLICATION

- Aviation
- Shipping
- Textile
- Healthcare



FREQUENCY CONVERTORS

50HZ / 60HZ / 400HZ

For Aviation & Special purpose power supply

Highly reliable custom-built frequency converters

- Tight voltage and frequency regulation.
- Active boost topology for low noise.
- Capable to handle reactive loads.
- Fully DSP controlled
- Industrial grade design
- Power saving (up to 70%)
- Longer service life of mechanical and electrical parts
- Reduction of repair costs

Input

Any voltage & frequency

AC/DC

1 ϕ /3 ϕ

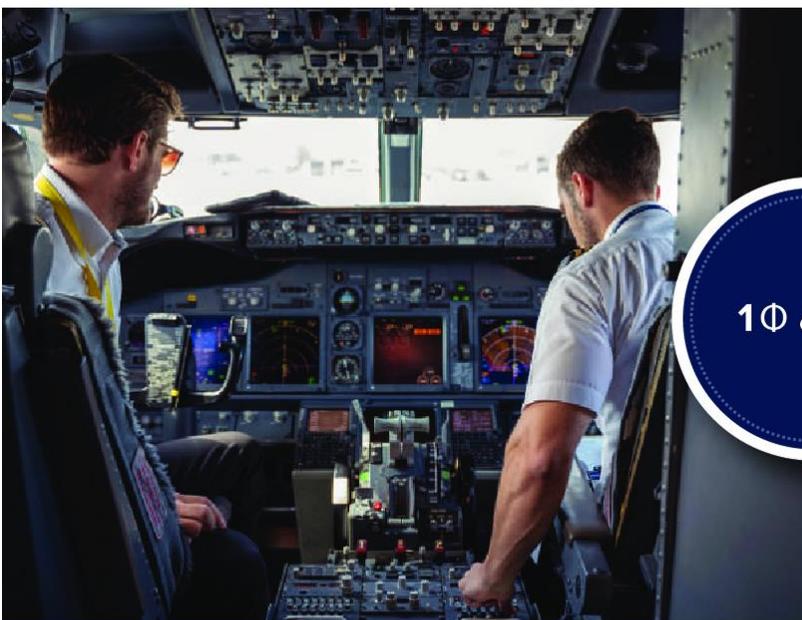
Output

Any voltage & frequency

1 ϕ /3 ϕ



110VAC, 220VAC, 400VAC, 50HZ 60HZ, 400HZ with voltage and frequency Conversion.



1 ϕ & 3 ϕ

400HZ
For Aviation



60HZ
For Special Purpose Equipment

SPECIFICATION OF STATIC FREQUENCY CONVERTER											
Rating (max.)	5KVA	10KVA	20KVA	50KVA	80KVA	100KVA	160KVA	200KVA	250KVA	300KVA	400KVA
MODEL	SFC10	SFC10	SFC20	SFC50	SFC80	SFC100	SFC160	SFC200	SFC250	SFC300	SFC400
Technology	DSP enabled IGBT Rectifier with Inbuilt Isolation Transformer Technology										
INPUT											
Voltage Range	415VAC \pm 10 % , 3 Phase , 4Wire/ 220VAC \pm 10 % , 3 Phase , 4Wire										
Input Nominal Frequency	50 Hz \pm 6%										
Input Power Factor	0.8										
OUTPUT											
Output Power Capacity (KVA)	5KVA	10KVA	20KVA	50KVA	80KVA	100KVA	160KVA	200KVA	250KVA	300KVA	400KVA
Output Power Capacity (KW)	4kW	8kW	16kW	40kW	64kW	80kW	128kW	160kW	200kW	240kW	320kW
Output Power Factor	0.8										
Output Voltage Range	400VAC \pm 1 % , 3 Phase, 4Wire (Option 220/ 480VAC \pm 1 % , 3 Phase, 4Wire)										
Voltage Regulation	\pm 1.5 %										
Output Frequency	60 Hz / 400 Hz \pm 1 %										
Total Harmonic Distortion	< 3 % fundamental rms voltage										
Overload Capacity	110% for 60 min., 125% 5min, 150% for 5 sec										
Overall Efficiency	> 90%										
Response Time	less than 25millisecs										
CONNECTIVITY											
Communication	RS 232 Standard (Modbus RS485 Optional)										
Metering	Onboard Programmable LED/LCD Panel Display following parameters : 1. Input Voltage. 2. Input Frequency. 3. Output Voltage 4. Output Frequency 5. Load Percentage										
Protections	1. Mains fail, 2. Single Phase Preventer, 3. Input Under / Over Voltage, 4. Over Temperature, 5. Output Over Voltage, 6. Output Under Voltage, 7. Output Short Circuit										
Indications	1. Input ON, 2. Output ON, 3. Output Over Voltage, 4. Output Under Voltage, 5. Overload, 6. Over Temperature										
Alarms	Mains fail Warning (Musical Alarm)										
ENVIRONMENTAL											
Operating Temperature	0 to 40°C. (Upto 50°C)										
Storage Temperature	0 to 55°C.										
Audible Noise	<= 65 dB at 1.0 mtr					<= 80 dB at 1.0 mtr					
Humidity	95 % R.H. (Maximum) Noncondensing										
Altitude	<1000 Meter above sea level										
Cooling	Forced Cooling										
CONSTRUCTION											
Thickness	CRCA Sheet Thickness Frame, All door & covers 1.2mm.										
Protection Class	Enclosure Protection IP20 (Optional IP42/ 54)										
Color	RAL 7016 (6070micron)										
Ventilation	Forced Cooling										
Cable Entry	Bottom at Front Side										
STANDARD											
Quality	ISO 9001:2015										
Performance, EMC / LVD	IEC 620402										
* Specifications are subject to change without prior notice.											

Enertech® Highly Reliable And Efficient Products are Backed by a Highly Responsive and Dependable Field and Factory Services

Your business runs around the clock, and so does Enertech. With 24x7 technical support coverage, including weekends and holidays, The Technical Support team at Enertech is dedicated to protecting your investments

With factory trained engineers positioned throughout the India, rapid response times can significantly reduce downtime and loss of revenue.

Highly skilled Technical Support representatives are available to troubleshoot by phone and, if necessary, Can dispatch the expert Service engineer to your site.



50+ Service
Personnel Pan-India



Pan-India
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Wide Repair
Network

SERVICES

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- ◆ *and On-site Testing Preventive*
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- ◆ *Warranty*

Please call for
Technical Support

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7 x 24 x 365 Customer Service Support

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Our Offering

Online UPS, Static Frequency Converter,
Solar UPS, Industrial Battery Charger



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