

# CVCF

(Constant Voltage Constant Frequency)

10 KVA to 50 KVA



POWER SOLUTIONS  
Since 2001

## Application:

- Aviation equipment
- Navy equipment
- For imported /Exported machine
- Special devices
- Customized application
- Data Centres & SCADA systems



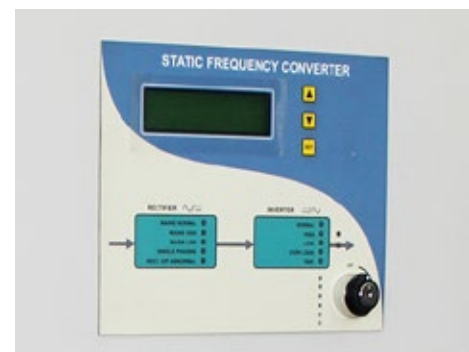
CVCF are designed to support mission critical equipment with steady Voltage and Steady Frequency. Works on double conversion principle with isolated output to provide total protection to load against all calamities of Mains supply or DG set. Industrial grade design helps sustain extreme weather conditions and electrical disturbances to protect load equipment.

## Features:

- IGBT based design
- Ref the brochure for SFC
- Constant Voltage with +/-1% regulation
- Constant Frequency with +/-1% regulation
- Rugged Industrial Design
- Digital Microcontroller based Circuits
- Galvanic Isolation
- For unbalanced loading
- Meets BIS/IEEE standards

## Advantages

- Low maintenance
- Precise power
- Safeguards load
- High Uptime Easy to Service



Display



## CVCF series - Technical Specifications of 3 Phase Static Converters

Capacity – CVCF	10 KVA	20 KVA	25 KVA	30 KVA	50 KVA
<b>INPUT</b>					
Rated voltage/Frequency	Voltage : 415 VAC 3 Phase 4 wire* Frequency : 50 Hz				
	300 VAC to 600 VAC* Custom ranges available				
Input frequency range	45 Hz to 55 Hz				
Power factor	0.8 to 0.98				
Power Walk-in	30 to 90 seconds				
<b>OUTPUT</b>					
Rated Voltage	380 VAC or 400 VAC or 415 VAC 3 phase 4 wire + Ground (any one voltage setting)*				
Phase shift	120°± 0.5°				
Voltage tolerance	±1% Line – Neutral, Line to Line				
Accurate output frequency	50Hz± 1%				
Output power factor	0.8 lagging to Unity				
Transient Response	For 100% step load change output stays within ±5% and recovers within 200 msecs.				
Total Harmonic Distortion	<3% for Linear Load, 5% for nonlinear load				
Technology	Micro- controller based PWM, IGBT				
Waveform	Pure sine wave				
Output overloading	100% for continuous, 120% for 10mins, 150% for 30secs				
Crest factor	3:1				
Inverter efficiency	Greater than 90%				
<b>SYSTEMS FEATURES</b>					
Display	LCD with LEDs				
Genset compatible	Yes				
IP grade	IP 45*				
Safety protections	Output under/over voltage, Output overload, Output short circuit, DC under/over voltage Input phase under/over voltage				
Cooling	Forced air cooling & Natural cooling				
Isolation	Total isolation of output from input to protect from spicks and surges				
Audible Alarms	Output under/over voltage, Output overload, Output short circuit, DC under/over voltage				
By pass	Manual bypass provided				
Audible noise	Less than 60 dB at 1 meter				
Bypass	Provided				
Testing Standard	As per IEC 62040-3				
<b>ENVIRONMENTAL</b>					
Temperature	Operating 0- 50°C, Storage -10°C - 50°C,				
Humidity & Altitude	0-95% RH Non Condensing, <1000 M				
Humidity range	95% Rh (non condensing)				
<b>PHYSICAL</b>					
Dimensions* (wxdxh) mm	Less than (600x700x1200)			Less than (600x800x1400)	
Weight Kgs	118	145	180	198	220
Enclosure Color	Siemens Grey/Black				

\*Specifications, form factor of the above mentioned products are subjected to change for betterment without any intimation

