

Static Frequency Converter (SFC)

10kW to 80kW

The Taurus is a three-phase monolithic design static frequency converter (SFC), providing reliable and efficient power conversion. Featuring latest IGBT technology, a high-efficiency switching device capable of handling high voltage and current, reducing energy losses during switching process, making them suitable for a wide range of applications, from industrial machinery to renewable energy systems.



PERFECT FOR:



Generators



Offshore / Dock



Flight Simulator System



Data Centers



Industrial

FEATURES

Power Performance

- Up to 96% efficiency across a wide load range
- Clean sinewave output voltage
- Near-unity input power factor > 0.99
- Low input harmonic distortion <3%
- Wide range of Input Frequency available: 50Hz \pm 5Hz and 60Hz \pm 5Hz

High Scalability

- Power capacity from 10kW to 80kW
- Parallel expansion up to 6 units of same capacity

Capabilities

- Smart Rotation Redundancy to optimized reliability for parallel configuration

Easy to Control

- Large HMI Coloured LCD Touch Screen for advanced control and monitoring

Options

- Add standby batteries to backup critical loads during power failure

TYPICAL APPLICATIONS

- 50Hz to 60Hz or 60Hz to 50Hz industrial applications
- Dockside converter allows generators to be turned off while at port to save fuel and eliminate pollution
- Replacement of motor generators sets
- As a clean power supply to isolate an unstable grid from critical load
- Offshore/Dock and Flight Simulator System encounter varying power line frequency, Frequency converter ensures the compatibility of electrical system in these environment.

TECHNICAL SPECIFICATION

MODEL	TAURUS	10kW	20kW	30kW	40kW	60kW	80kW
Input	Voltage	380V – 480V ± 10%					
	Maximum Supply Voltage	110%					
	Nominal Frequency	50Hz or 60Hz					
	Frequency Tolerance	± 5Hz					
	Power System	3 phase + N + G					
	Power Factor	≥ 0.99					
	Current Harmonics	THDi < 3% (linear load)					
Output	Capacity Rating	50kW to 1500kW					
	Voltage	380V/400V/415V					
	Power Factor	1.0					
	Frequency	50Hz or 60Hz					
	Frequency Accuracy	+/- 0.1%					
	Voltage Harmonic	THDv < 1% (linear load)					
Protection	Overload Capability	125% for 10 minutes 150% for 1 minute					
Performance	Efficiency	96% Typically					
User Interface	Display Panel	4.3" LCD Coloured Touch Screen					
	Standard Communication Interface	RS232, USB, EPO					
	Optional Communication Interface	SNMP Card, Dry Contact Card, RS-485 Modbus Card					
Physical	Dimension (WxDxH, mm)	440 x 840 x 1390			600 x 827 x 1300		
	Weight (kg)	45					
	Protection Index	IP20					
	Noise at 1meter	60dBA @ 100%					
	Cooling	Forced Air cooling					
Environmental	Operating Temperature	0~40°C					
	Operating Humidity	0~95% (non condensation)					
Standards and Certifications	Safety and EMC	IEC/EN 62040-1 and IEC/EN 62040-2					
	Performance	IEC/EN 62040-3					

Designed &
Engineered by:

