

**FN 5000**  
Series

**Frequency Converters Technical Specifications**  
10-800 kVA 3 Phase Input - 3 Phase Output (HF)



MODEL	5010	5015	5020	5030	5040	5060	5080
Apparent Power(kVA)	10	15	20	30	40	60	80
Active Power (kW)	8	12	16	24	32	48	64
<b>INPUT</b>							
Voltage	115/200 Vac, 220/380 Vac, 254/440 Vac (3P+N+PE) or Optional Special Design W/O Neutral						
Voltage Tolerance	± %5...%20 (Adjustable with %1 step)						
Frequency	50 or 60 Hz						
Frequency Tolerance	%5						
THDi	<5%						
Power Factor	0.99						
<b>OUTPUT</b>							
Voltage	115/200 Vac, 220/380 Vac, 254/440 Vac (3P+N+PE) or Optional Special Design W/O Neutral						
Voltage Regulation	< ±1%						
Frequency	60 or 50 Hz±0.5%						
Crest Ratio	3:1						
Efficiency	>89%			>90%			
Power Factor	0.8						
THDv	<3% Linear Load, <5% Non-Linear Load						
Overload	%100<Load<%125 for 10 min., %125<Load<%150 for 1 min.						
Short Circuit Protection	Electronic Protection, Fuse						
<b>GENERAL FEATURES</b>							
Working Type	Static, Online, DSP Controlled						
Topology	High Frequency PWM , IGBT Technology						
Display	128x64 Graphic LCD						
LED	6 pcs for Line, Charge, Battery, Inverter, Overload, Failure						
Event Logs	Up to 500 Logged Event History						
<b>ENVIRONMENTAL</b>							
Operating Temperature	0 ~ 40 °C						
Storage Temperature	-25 ~ +55 °C						
Relative Humidity	% 0-95 (Non-condensing)						
Altitude (without derating)	< 1000 m						
Cooling	Forced Air Cooling						
Protection Level	IP20 (Others on request)						
Acoustic Noise	<55 dBA			<60dBA			
<b>PHYSICAL</b>							
Dimensions (WxDxH)mm.	350x795x1110			500x806x1213			
Weight (kg)	112	115	119	160	165	172	
<b>OPTIONS</b>							
Functions	Parallel Operation, EPO Emergency Stop, Heater						
Battery	60x12 Vdc Maintenance Free Dry Type						
Isolation Transformer	Input and/or Output						
Communication	Dry Contacts, SNMP, Modem, RS232, RS485						
<b>STANDARDS</b>							
Harmonized Standards	EN 62040-1 (LVD), EN 62040-2 (EMC), EN 62040-3						

**GENERAL SPECIFICATIONS**

- IGBT Rectifier and Inverter
- Input Current Harmonic < %5
- Silent Performance
- DSP Controlled
- Up to 0.99 Input Power Factor Correction
- Advanced LCD Panel
- Up to 500 Event History



**FREQUENCY CONVERTER**

Static frequency converters are used with the devices which cannot adapt to line frequency. Static converters are more economic and more technological solution than the conventional motor generator (Dynamic Converter) for these problems. Their efficiency is higher, but operation costs are lower. Frequency converter's dynamic response is very short, because of working with static components. They are DSP controlled and they can be developed according to customer needs. Battery can be added to system and converter can continue to work even in line failures. FN5000 Series converts 50/60 Hz Input Frequency to 60/50 Hz Output Frequency at desired voltage.