

FN 5000
Series

Frequency Converters Technical Specifications
10 - 500 kVA 3Ph Input / 3Ph Output



MODEL	5010	5015	5020	5030	5040	5060	5080	5100	5120	5160	5200	5250	5300	5400	5500	
Power (kVA)	10	15	20	30	40	60	80	100	120	150	200	250	300	400	500	
INPUT																
Voltage	115-200Vac, 220/380Vac, 254/440Vac 3 Faz+Nötr ya da Nötr'süz Özel Tasarım															
Voltage Tolerance	±20%															
Frequency	50 Hz, (60 Hz Optional)															
Input Power Factor	>0,98															
THDi	<5%															
OUTPUT																
Voltage	115-200Vac, 220/380Vac, 254/440Vac 3 Phase+N or Special Design witout Neutral															
Voltage Tolerance	±1%															
Frequency	50 Hz; 60 Hz; 400 Hz ±0.5% (Optional)															
Efficiency (100% Load)	>89%			90%			91%									
Power Factor	0.8															
THDv	<3%															
Crest Ratio	3:1															
PROTECTIONS																
Voltage Protection	Inverter Operation Limits are Adjustable															
Temp. Protection	IGBT Heatsink and Output Transformer Over Temperature Protection															
Overload	10 min. for %100 - %125 ; 1 min. for %125 - %150 , Inverter Off for >%150															
Over Current Protection	Fuse and Electronic Protection															
BATTERY (Optional)																
Voltage	810 Vdc (Optional)															
Quantity	60 (Optional)															
GENERAL																
Display	Graphic LCD Panel, Line, Charge, Inverter, Failure LED, Mimic Diagram															
Warnings	Up to 500 Logged Event History															
Working Type	Static, Online, DSP Controlled															
Topology	High Frequency PWM , IGBT Technology															
Communication	Dry Contacts, Optional Remote Control over Internet by SNMP, Optional Modem															
ENVIRONMENTAL																
Operating Temperature	0 - 40°C															
Relative Humidity	95% (non condensing)															
Operating Altitude	<2000 m															
Protection Level	IP20															
Acoustic Noise (1 m.)	<60 dBA			<65 dBA			<70 dBA		<74 dBA		<75 dBA					
PHYSICAL																
Dimensions (HxWxD) mm	350x800x1080			500x800x1080			550x800x1340		650x1100x1680		780x1260x1900		810x2030x2190			
Weight (kg)	112	115	119	160	165	172	290	315	490	540	870	890	1370	1480		

GENERAL SPECIFICATIONS

- Pure Sinewave wave form (THD<3%)
- DSP Controlled
- Static IGBT PWM inverter
- 500 logged events history
- Graphic LCD Panel

FREQUENCY CONVERTER

Static frequency converters are used with the devices which can not 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.