AS-FC 3000 M Series

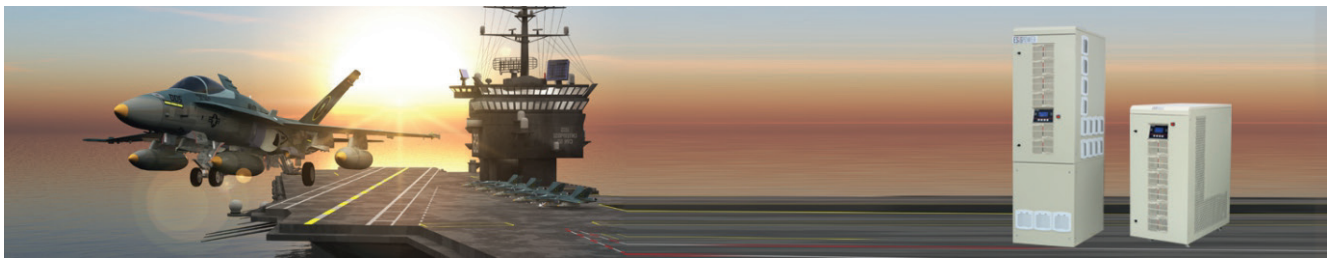
GENERAL SPECIFICATIONS

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

Frequency Converters Technical Specifications

10-300 kVA 3 Phase Input - 3 Phase Output (HF) 400 Hz

MODEL	3010 M	3015 M	3020 M	3030 M	3040 M	3060 M	3080 M	3100 M	3120 M	3160 M	3200 M	3250 M	3300 M
Apparent Power(kVA)	10	15	20	30	40	60	80	100	120	160	200	250	300
Active Power (kW)	8	12	16	24	32	48	64	80	96	128	160	160	240
INPUT													
Voltage	115/200 Vac, 220/380 Vac, 254/440 Vac 3 Phase+N or Optional Special Design W/O Neutral												
Voltage Tolerance	± %5…%20 (Adjustable with %1 step)												
Frequency	50 Hz (On request 60 Hz)												
Frequency Tolerance	%5												
THDi	<5%												
Input Power Factor	0.99												
OUTPUT													
Voltage	115/200 Vac, 220/380 Vac, 254/440 Vac 3 Phase+N or Optional Special Design W/O Neutral												
Voltage Regulation	<±1%												
Frequency	400 Hz ±0.5%												
Crest Ratio	3:1												
Efficiency (100 Load)	>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., load>150 :Shut down												
Short Circuit Protection	Electronic Protection, Fuse												
GENERAL FEATURES													
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												
ENVIRONMENTAL													
Operating Temperature	0-40 °C												
Storage Temperature	-25 ~ +55 °C												
Relative Humidity	% 0-95 (Non-condensing)												
Altide (without derating)	<1000 m												
Cooling	Forced Air Cooling												
Protection Level	IP20 (Others on request)												
Acotic Noise	<55 dBA			<60 dBA			<65 dBA			<70 dBA			
PHYSICAL													
Dimesions (WxDxH)cm	350x795x1110			500x806x1213			550x800x1335			680x1007x1747		780x1260x1900	1600x868x1800
Weight without Batteries(kg)	112	115	119	160	165	172	290	315	490	540	870	1300	
OPTIONS													
Functions	Parallel Operation, EPO, Emergency Stop, Heater												
Battery	60x12 Vdc Maintenance Free Type												
Isolation Transformer	Input and/or Output												
Communication	Dry Contacts, SNMP, Modem, RS232, RS485												
STANDARDS													
Harmonized Standards	EN 62040-1(LVD), EN 62040-2(EMC), EN 62040-3, EN 55011, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-2-2, MIL-STD-461, MIL-STD-1310G												



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.

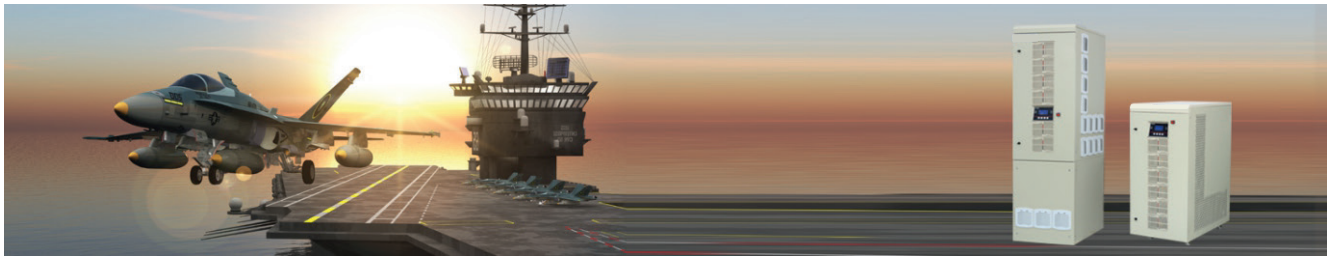
AS-FC 3000 Series

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

MODEL	3010	3015	3020	3030	3040	3060	3080
Apparent Power(kVA)	10	15	20	30	40	60	80
Active Power (kW)	8	12	16	24	32	48	64
INPUT							
Voltage	115/200 Vac, 220/380 Vac, 254/440 Vac 3 Phase+N or Optional Special Design W/O Neutral						
Voltage Tolerance	± %5…%20 (Adjustable with %1 step)						
Frequency	50 Hz (On request 60 Hz)						
Frequency Tolerance	%5						
THDi	<5%						
Input Power Factor	0.99						
OUTPUT							
Voltage	115/200 Vac, 220/380 Vac, 254/440 Vac 3 Phase+N or Optional Special Design W/O Neutral						
Voltage Regulation	<±1%						
Frequency	50 Hz; 60 Hz ±0.5%						
Crest Ratio	3:1						
Efficiency (100 Load)	>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., load>150 :Shut down						
Short Circuit Protection	Electronic Protection, Fuse						
GENERAL FEATURES							
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						
ENVIRONMENTAL							
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		
PHYSICAL							
Dimensions (WxDxH)cm	350x795x1110			500x806x1213			
Weight without Batteries(kg)	112	115	119	160	165	172	
OPTIONS							
Functions	Parallel Operation, EPO, Emergency Stop, Heater						
Battery	60x12 Vdc Maintenance Free Type						
Isolation Transformer	Input and/or Output						
Communication	Dry Contacts, SNMP, Modem, RS232, RS485						
STANDARDS							
Harmonized Standards	EN 62040-1 (LVD), EN 62040-2 (EMC), EN 62040-3						

GENERAL SPECIFICATIONS

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



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AS-FC 3000 Series

Frequency Converters Technical Specifications

10-800 kVA 3 Phase Input - 3 Phase Output (HF)

MODEL	5100	5120	5160	5200	5250	5300	5400	5500	5600	5800
Apparent Power(kVA)	100	15	120	160	250	300	400	500	600	800
Active Power (kW)	80	12	96	128	200	240	320	400	40	640
INPUT										
Voltage	115/200 Vac, 220/380 Vac, 254/440 Vac 3 Phase+N or Optional Special Design W/O Neutral									
Voltage Tolerance	± %5…%20 (Adjustable with %1 step)									
Frequency	50 Hz (On request 60 Hz)									
Frequency Tolerance	%5									
THDi	<5%									
Input Power Factor	0.99									
OUTPUT										
Voltage	115/200 Vac, 220/380 Vac, 254/440 Vac 3 Phase+N or Optional Special Design W/O Neutral									
Voltage Regulation	<±1%									
Frequency	50 Hz; 60 Hz ±0.5%									
Crest Ratio	3:1									
Efficiency (100 Load)	>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., load>150 :Shut down									
Short Circuit Protection	Electronic Protection, Fuse									
GENERAL FEATURES										
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									
ENVIRONMENTAL										
Operating Temperature	0-40 °C									
Storage Temperature	-25 ~ +55 °C									
Relative Humidity	% 0-95 (Non-condensing)									
Altide (without derating)	<1000 m									
Cooling	Forced Air Cooling									
Protection Level	IP20 (Others on request)									
Acotic Noise	<65 dBA		<70 dBA		<74dBA		<75dBA			
PHYSICAL										
Dimesions (WxDxH)cm	550X800X1335		68X1007X1747		780X1260 X1900	1600X868X1800		2190X801 X2029	3216X868X1800	
Weight without Batteries(kg)	290	315	490	540	870	1300	1370	1480	1690	1750
OPTIONS										
Functions	Parallel Operation, EPO, Emergency Stop, Heater									
Battery	60x12 Vdc Maintenance Free Type									
Isolation Transformer	Input and/or Output									
Communication	Dry Contacts, SNMP, Modem, RS232, RS485									
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