

Master FC400



ONLINE



Tower



Service
1st start



3:3 30-125 kVA

HIGHLIGHTS

- **Frequency Converter 50/400 Hz**
- **Output voltage: 208 V - 3F**
- **Galvanic isolation**
- **Applications: airport, military and naval**
- **Battery backup**

Master FC400 series static Frequency Converters are available from 30 to 125 kVA, with 50 or 60 Hz input and 400 Hz output. The result of extensive experience acquired in the UPS industry, the Master FC400 series is distinguished by the use of technologically advanced components and for excellent reliability, ease of maintenance and ease of operation. The Master FC400 series uses double conversion technology (VFI SS 111 voltage and frequency independent compliant with IEC EN 62040-3), with an integrated output transformer to ensure the galvanic isolation of the load from mains disturbances under all conditions. The output voltage is 208 V three-phase (adjustable 200-215 V). Thanks to high frequency IGBT technology and digital control, Master FC400 Frequency Converters are ideal for airport, military and naval applications.

MINIMUM IMPACT ON MAINS - EASY SOURCE

The Master FC400 was designed to reduce to a minimum the impact on the mains or generator located upstream, thanks to the low harmonic content input and the progressive start of the rectifier. These features make the Master FC400 Frequency Converters especially compatible with generators.

EASY INSTALLATION AND MAINTENANCE

The Master FC400 requires a small space for installation (only 0.86 m² for a 125 kVA model). The main assemblies of the UPS can be easily accessed for maintenance, via the removable front panel. Fans located in the top of the UPS cabinet, eliminate the need for side or rear access, and allow the UPS to be placed against a wall.

APPLICATIONS

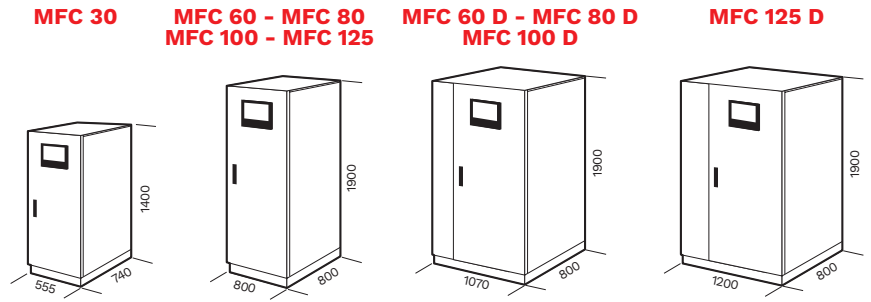
Master FC400 provides additional protection for a wide range of applications, including:

- Powering airplanes in airports
- Radar and flight-control systems
- Naval applications
- Military applications
- Power for test benches.

BATTERY BACK-UP

MFC is also available as UPS with battery back-up.

DIMENSIONS



OPTIONS

SOFTWARE & ACCESSORIES

See Master MPS

PRODUCT ACCESSORIES

Input isolation transformer

IP rating IP31/IP42

Parallel configuration kit (Closed Loop)

12 pulse version (D)

Filtering of 5th and 11th harmonics (HC)

Top Cable Entry cabinets

MODELS	MFC 30	MFC 60	MFC 80	MFC 100	MFC 125
INPUT					
Rated voltage [V]	380 / 400 / 415 three-phase				
Voltage tolerance [V]	400 ±20% @ full load ¹				
Frequency [Hz]	45 - 65				
Current distortion	<5% C (HC Version)				
Soft start	0 - 100% in 120 sec. configurable				
OUTPUT					
Nominal power [kVA]	30	60	80	100	125
Active power [kW]	24	48	64	80	100
Rated voltage [V]	208 three-phase + N				
Static stability	±1%				
Dynamic stability	±5%				
Voltage distortion	<3% with linear load / <4% with non-linear load				
Frequency [Hz]	400				
Crest factor [Ipeak/Irms]	3:1				
Overload	110% for 60 min.; 125% for 10 min.; 150% for 1 min.				
OVERALL SPECIFICATIONS					
Weight [kg]	330	480	500	530	590
Dimensions (WxDxH) [mm]	555x740x1400		800x800x1900		
Remote signals	dry contacts				
Remote controls	ESD and ON/OFF				
Communications	Double RS232 + dry contacts + 2 slots for communications interface				
Ambient temperature for the UPS	0 °C - +40 °C (50 °C @ 75% load)				
Recommended temperature for battery life	+20 °C - +25 °C				
Range of relative humidity	5-95% non-condensing				
Colour	Light grey RAL 7035				
Noise level at 1 m (ECO Mode) [dBA]	62	65	68	70	72
IP rating	IP20 (others on request)				
Efficiency	up to 92%				
Altitude [m]	6000 max altitude				
Standards	European directives: L V 2014/35/EU low voltage Directive EMC 2014/30/EU electromagnetic compatibility Directive Standards: Safety IEC EN 62040-1; EMC IEC EN 62040-2; RoHS compliant Classification in accordance with IEC 62040-3 (Voltage frequency Independent) VFI - SS - 111				
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Moving the UPS	Pallet jack				

¹ For wider tolerance conditions apply.