# Zrielloups











### HIGHLIGHTS

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

Master FC400 series static frequency converters are available from 30 to 120 kVA, with 50 or 60 Hz input and 400 Hz output. The result of extensive experience acquired in the UPS industry, the Master FC 400 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 Vca three-phase

(200/115V versions upon request). 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 0.86m<sup>2</sup> for a 120kVA 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.

#### DIMENSIONS



#### OPTIONS

SOFTWARE & ACCESSORIES	IP rating IP31/IP42
See Master MPS	Parallel configuration kit (Closed Loop)
	Twelve-phase version (D)
PRODUCT ACCESSORIES	Filtering of 5 <sup>th</sup> and 11 <sup>th</sup> harmonics (HC)
Input isolation transformer	Top Cable Entry cabinets
	Generator interface

MODELS **MFC 30 MFC 60 MFC 80 MFC 100 MFC 120** INPUT Nominal voltage 380 - 400 - 415 Vac three-phase 400 V ± 20% Voltage tolerance 45 - 65 Hz Frequency Current distortion < 5% C (HC Version) Soft start 0 - 100% in 120" configurable OUTPUT Nominal power (kVA) 80 120 30 60 100 Active power (kW) 24 48 64 80 96 Nominal voltage 208 Vac three-phase + N Static stability ± 1% Dynamic stability ± 5% Voltage distortion < 3% with linear load / < 4% with non-linear load Frequency 400 Hz Crest factor (lpeack/lrms) 3/1 110% for 60'; 125% for 10'; 150% for 1' Overload **INFO FOR INSTALLATION** Weight (kg) 480 560 330 500 530 Dimensions (WxDxH) (mm) 555 x 740 x 1400 800 x 800 x 1900 Remote signals dry contacts Remote controls ESD and ON/OFF Communications Double RS232 + dry contacts + 2 slots for communications interface 0°C / +40°C (50°C @ 75% load) Operating temperature Relative humidity <95% non-condensing Colour Light grey RAL 7036 Noise level at 1 m 70 dBA 72 dBA 62 dBA 65 dBA 68 dBA IP rating IP20 (others on request) Efficiency up to 92% Directives LV 2006/95/EC - 2004/108/EC; Safety IEC EN 62040-1; EMC IEC EN 62040-2; Performance IEC EN 62040-3 Standards Classification in accordance (Voltage Frequency Independent) VFI - SS - 111 with IEC 62040-3 Moving the UPS transpallet



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#### **RPS SpA - Riello Power Solutions - Member of the Riello Elettronica Group**

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