

FCM-series

200 - 600 kVA Modular Static Frequency Converter

Modular Hot-Swap Design

- 50kW power modules – replace under live load
- N+X redundancy; capacity scales by adding modules
- Monitoring module integrated in cabinet
- Front-access service; no rear clearance required
- Minimal footprint: 600-1200mm wide, 750-1000mm deep

Comprehensive and Reliable Protection

- Input over/under-voltage & frequency out-of-range
- Output over/under-voltage & over-current
- Short-circuit and overload protection
- Over-temperature (module & cabinet)
- Phase loss / phase imbalance detection
- Fan failure alarm

Display & Communication Interface

- LED and 7 /10 inch touchscreen LCD
- USB port
- RS-232 and RS-485 port
- Dry contact port
- SNMP / LAN capability (optional)



Power Module

MODEL		FCM-200		FCM-300	FCM-400	FCM-500	FCM-600
POWER	Rated power	200kVA / 200kW		300kVA / 300kW	400kVA / 400kW	500kVA / 500kW	600kVA / 600kW
	Power modules (x 50 kW)	4		6	8	10	12
INPUT	Configuration	3 Phase 5 Wires (3P+N+PE)					
	Rated voltage	380/400/415 Vac (L-L)					
	Phase voltage	220/230/240 Vac (L-N)					
	Voltage range	304 ~ 478 Vac (L-L) (at full load)					
	Frequency	40 ~ 70 Hz (50 / 60 Hz auto-sensing)					
	Power factor	> 0.99					
	Current distortion (THDi)	<2% at full linear load					
OUTPUT	Rated voltage	380/400/415 Vac (L-L)					
	Phase voltage	220/230/240 Vac (L-N)					
	Frequency	50 / 60 Hz ± 0.1% (selectable)					
	Power factor	1.0					
	Output THDu	< 1% at linear load, <5% at non-linear load					
	Overload capability	< 110% continuous operation					
		110% ~125% for 10 min.					
		125% ~ 150% for 1 min.					
Crest factor ratio	3 : 1						
Phase accuracy	120° ± 0.5°						
EFFICIENCY		> 96.5%					
DISPLAY	LED + Touch screen LCD	LED + 7" LCD	LED + 10" LCD				
AUDIBLE ALARM	Buzzer	yes					
COMMUNICATION	USB port	yes					
	RS-232 port	yes					
	RS-485 port	yes					
	Dry contact	yes					
	SNMP/HTTP capability	optional					
ACOUSTIC NOISE	At 1 metre	72 dBA at full load, 69 dBA at 45% load					
PHYSICAL	Air filter	Standard					
	Cooling	Force air – front-accessible fan modules					
	Cable entry	Top or bottom					
	Ingress protection	IP20					
ENVIRONMENT	Operating temperature	0°C ~ 40°C					
	Storage temperature	0°C ~ 50°C					
	Relative humidity	0 ~ 95% (non-condensing)					
DIMENSIONS (W x H x D in cm)	Cabinet	60 x 160 x 75	60 x 200 x 75	60 x 200 x 100	60 x 200 x 100	120 x 200 x 85	
	Power module	44 x 140 x 47.5					
WEIGHT (Approximate in kg)	Cabinet	170 kg	220 kg	320 kg	450 kg	450 kg	
	Power module	23 kg					
STANDARD	Safety	IEC 62040-1, IEC 60950-1					
	EMC	IEC 62040-2, IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge)					

Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

Authorized Distributor

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