LEONICS®

FCM-200 | FCM-200 (VS)

200 kVA Modular Static Frequency Converter

with optional 5-Position Output Voltage Selector Cabinet

Modular Hot-Swap Design

- 4 × 50 kW power modules – replace under live load
- Front-access service; no rear clearance required
- Compact cabinet: 600 W × 750 D × 1600 H mm

Output Voltage Selector – FCM-200 (VS)

- 5 selectable output voltages (L-L), at 50 Hz or 60 Hz:

357.2 V | **380 V** | **400 V** | **480 V** | **508.8 V**

- Step-up/down transformer in separate VS-200 cabinet
- Selector switch, digital voltmeter and output breaker
- VS-200 cabinet: 800 W × 1000 D × 1600 H mm

Comprehensive and Reliable Protection

- Input over/under-voltage
- Frequency out-of-range
- Short-circuit & overload
- Phase loss / imbalance
- Output over/under-voltage
- Output over-current
- Over-temperature
- Fan failure alarm

Display & Communication Interface

- LED and 7" touchscreen LCD
- USB, RS-232, RS-485 and dry contact ports
- SNMP / LAN capability (optional)



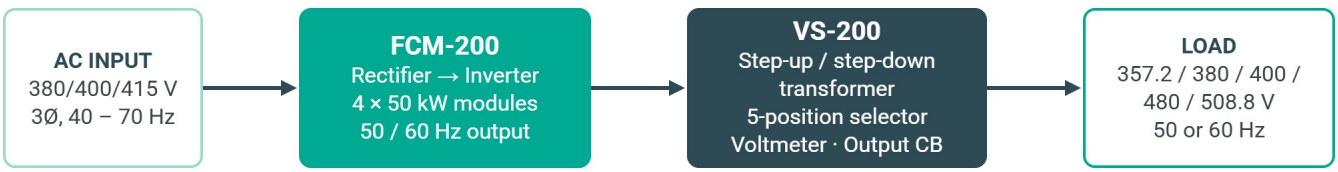
FCM-200 (left) with **VS-200** voltage selector cabinet (right)

System Configuration

FCM-200 · STANDARD OUTPUT



FCM-200 (VS) · WITH VS-200 VOLTAGE SELECTOR CABINET



Output voltage is chosen on the VS-200 front-panel selector; output frequency (50 Hz or 60 Hz) is set on the FCM-200.

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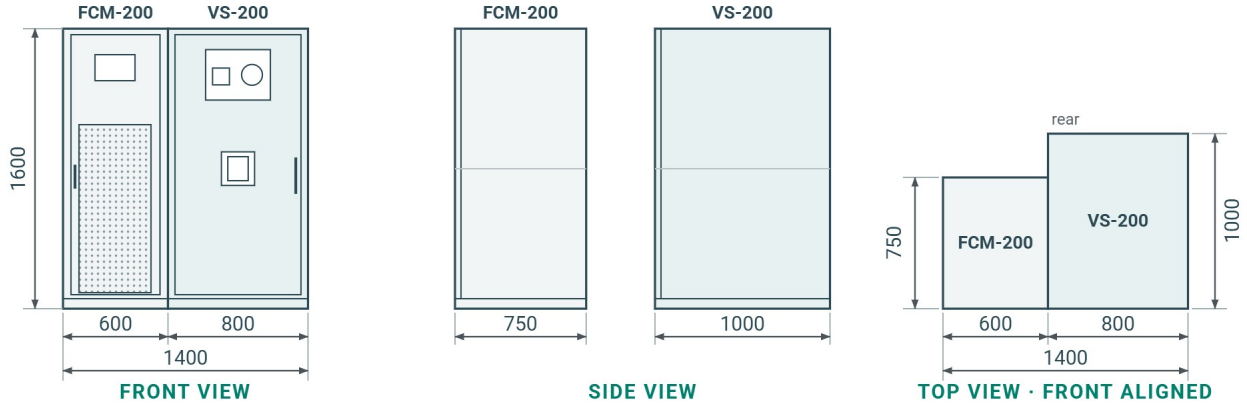
FCM-200 | FCM-200 (VS)

Modular Static Frequency Converter

MODEL		FCM-200	FCM-200 (VS)
POWER	Rated power	200 kVA / 200 kW	
	Power modules (× 50 kW)	4	
INPUT	Configuration	3 Phase 5 Wires (3P+N+PE)	
	Rated voltage	380/400/415 Vac (L-L) · 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 (L-L)	380 / 400 / 415 Vac	**357.2 / 380 / 400 / 480 / 508.8 Vac**
	Phase voltage (L-N)	220 / 230 / 240 Vac	206 / 219 / 231 / 277 / 294 Vac
	Rated current	304 / 289 / 278 A	323 / 304 / 289 / 241 / 227 A
	Frequency	50 / 60 Hz ± 0.1% (selectable), every output voltage	
	Power factor	1.0	
	Output THDu	< 1% at linear load, < 5% at non-linear load	
	Overload capability	≤ 110% continuous · 110 ~ 125% 10 min · 125 ~ 150% 1 min	
	Crest factor ratio	3 : 1	
	Phase accuracy	120° ± 0.5°	
VOLTAGE SELECTOR	Cabinet	–	VS-200, separate cabinet
	Transformer	–	Step-up / step-down
	Voltage selection	–	5-position selector switch
	Metering / protection	–	Digital voltmeter 96×96 · output CB
EFFICIENCY	Overall	> 96.5%	> 94.0%
DISPLAY	LED + touchscreen LCD	LED + 7" LCD	
AUDIBLE ALARM	Buzzer	yes	
COMMUNICATION	Ports	USB · RS-232 · RS-485 · Dry contact	
	SNMP / HTTP capability	optional	
ACOUSTIC NOISE	At 1 metre	72 dBA at full load, 69 dBA at 45% load	
PHYSICAL	Air filter	Standard	
	Cooling	Forced air – front-accessible fan modules	
	Cable entry	Top or bottom	
	Ingress protection	IP20	
ENVIRONMENT	Operating temperature	0 °C ~ 40 °C	
	Storage temperature	-25 °C ~ 70 °C	
	Relative humidity	0 ~ 95% (non-condensing)	
DIMENSIONS	Overall (W × H × D cm)	60 × 160 × 75	**140 × 160 × 100**
WEIGHT	Total (approx.)	270 kg	**1,070 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.

Product Dimensions (mm)



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Authorized Distributor

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