

CF CUBE3+ A

Frequency converter from 5 to 100 kVA

CF CUBE3+ A: Energy efficiency with superior electrical protection

Salicru's **CF CUBE3+ A** series is a Frequency Converters range featuring high-performance, On-line double conversion (VFI) technology that provides a reliable, high-quality power supply and, at the same time, achieves significant energy and financial savings in terms of installation and operating costs.

Particularly noteworthy is the unit's input power factor (PF=1) and its extremely low distortion rate (THDi even lower than 1%), which help to reduce installation and operating costs, and contribute to improving the quality of the electrical grid.

The output power factor (PF=0.9) also stands out, providing optimum electrical protection for computer systems and low harmonic output distortion (THDv even lower than 0.5%), enabling it to protect any type of load (inductive, resistive, capacitive or mixed). In addition, the performance achieved (up to 95%) produces significant energy consumption savings and reduces air conditioning needs.

For a full optimum solution, the **CF CUBE3+ A** provides maximum adaptability with extensive communication options. Finally, also worth noting is the unit's lightweight design and reduced dimensions, enabling it to be easily installed and ensuring that footprint is minimal.



Applications: Designed to protect any type of environment

High-end design features plus great flexibility capacity (options, communications,...) make **CF CUBE3+ A** series the best option to protect and secure a wide range of environments: data-centres, hosting, housing, IT-networks, server farms, voice and data networks,...



SALICRU
SMART
SOLUTIONS

SALICRU

Performances

- On-line double conversion (VFI) technology with DSP control.
- Input power factor 1, for better performance.
- Very low input current harmonic distortion (THDi as low as <1%).
- Total flexibility in input/output voltage. ⁽¹⁾
- Designed to withstand any type of load.
- Batt-Watch function for monitoring and battery care if required.
- High output power factor (PF=0.9).⁽²⁾
- Very low output voltage distortion rate (THDv even lower than 0.5%).
- Efficiency of up to 95%.
- Touch screen 7" color.⁽³⁾
- Very compact design with minimal footprint.
- Can be integrated into the most advanced IT environments
- Built with 80% recyclable materials.
- SLC Greenergy solution.

(1) Single/single, single/three and three/single configurations up to 60 kVA

(2) Depending on the input and output voltage settings

(3) According to model

ON
LINE

OPF =
0.9



SNMP
SLOT



EPO



Technical support and service

- Pre and post-sales advice.
- Start-up.
- Telephone technical support.
- Preventative/corrective intervention.
- Maintenance contracts.
- Remote maintenance contracts.
- Training courses.

Options

- Ethernet/SNMP adapter.
- Adapter for remote management.
- Monitoring, management and shutdown software.
- 1 x additional RS-232/485 serial port.
- Extended backup times.
- BACS II, battery monitoring, regulation and alarms.
- Single/single, single/three and three/single configurations.⁽¹⁾
- Touch screen 7" color.⁽¹⁾
- External manual bypass.
- Temperature and humidity sensors.
- External display.

(1) Up to 60 kVA



Range

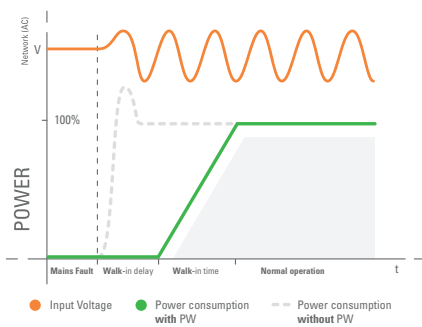
MODEL	CODE	POWER (VA / W)	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)
SLC-5-CUBE3+ A 50/60Hz	681LM000051	5000 / 4500	775 × 450 × 1100	100
SLC-7,5-CUBE3+ A 50/60Hz	681LM000069	7500 / 6750	775 × 450 × 1100	102
SLC-10-CUBE3+ A 50/60Hz	681LM000070	10000 / 9000	775 × 450 × 1100	105
SLC-15-CUBE3+ A 50/60Hz	681LM000071	15000 / 13500	775 × 450 × 1100	150
SLC-20-CUBE3+ A 50/60Hz	681LM000072	20000 / 18000	775 × 450 × 1100	175
SLC-30-CUBE3+ A 50/60Hz	681LM000073	30000 / 27000	775 × 450 × 1100	185
SLC-40-CUBE3+ A 50/60Hz	681LM000074	40000 / 36000	880 × 590 × 1325	265
SLC-50-CUBE3+ A 50/60Hz	681LM000075	50000 / 45000	880 × 590 × 1325	290
SLC-60-CUBE3+ A 50/60Hz	681LM000076	60000 / 54000	880 × 590 × 1325	290
SLC-80-CUBE3+ A 50/60Hz	681LM000077	80000 / 72000	850 × 900 × 1905	540
SLC-100-CUBE3+ A 50/60Hz	681LM000078	100000 / 90000	850 × 900 × 1905	550

Nomenclature, dimensions and weights for units with input voltage 3 x 220 V or 3 x 208 V, output voltage 3 x 220 V or 3 x 208 V and standard backup time.

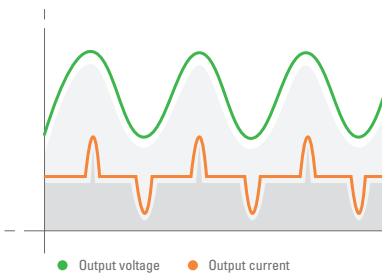
MODEL	CODE	POWER (VA / W)	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)
SLC-5-CUBE3+ A 60/50Hz	681LM000079	5000 / 4500	775 × 450 × 1100	100
SLC-7,5-CUBE3+ A 60/50Hz	681LM000080	7500 / 6750	775 × 450 × 1100	102
SLC-10-CUBE3+ A 60/50Hz	681LM000081	10000 / 9000	775 × 450 × 1100	105
SLC-15-CUBE3+ A 60/50Hz	681LM000082	15000 / 13500	775 × 450 × 1100	150
SLC-20-CUBE3+ A 60/50Hz	681LM000083	20000 / 18000	775 × 450 × 1100	175
SLC-30-CUBE3+ A 60/50Hz	681LM000027	30000 / 27000	775 × 450 × 1100	185
SLC-40-CUBE3+ A 60/50Hz	681LM000084	40000 / 36000	880 × 590 × 1325	265
SLC-50-CUBE3+ A 60/50Hz	681LM000085	50000 / 45000	880 × 590 × 1325	290
SLC-60-CUBE3+ A 60/50Hz	681LM000086	60000 / 54000	880 × 590 × 1325	290
SLC-80-CUBE3+ A 60/50Hz	681LM000087	80000 / 72000	850 × 900 × 1905	540
SLC-100-CUBE3+ A 60/50Hz	681LM000088	100000 / 90000	850 × 900 × 1905	550

Nomenclature, dimensions and weights for units with input voltage 3 x 220 V or 3 x 208 V, output voltage 3 x 220 V or 3 x 208 V and standard backup time.

Power walk-in

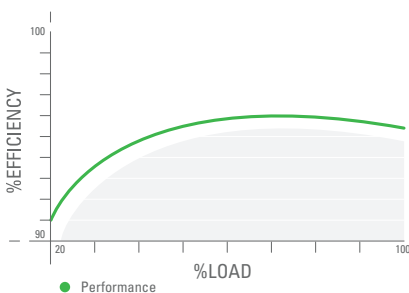


Excellent THDv output distortion



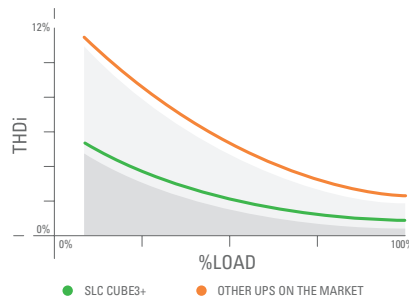
High efficiency

High performance.



Low harmonic distortion

The lowest harmonic distortion in the market.



Technical specifications

MODEL		CF CUBE3+ A
TECHNOLOGY		On-line, double conversion, HF, DSP control
INPUT	Rated voltage	Single-phase 120 / 127 V ⁽¹⁾ / Three-phase 3 × 208 / 3 × 220 V (3P + N) ⁽¹⁾
	Voltage range	+15% / -20% (configurable)
	Rated frequency	50 / 60 Hz
	Total harmonic distortion (THDi)	100% load: <1.5% / 50% load: <2.5% / 10% load: <6.0%
	Power factor	1 from 10% load
	Rectifier topology	Three-phase IGBT full wave, soft start, PFC, transformerless
	OUTPUT	Power factor
Rated voltage		Single-phase 120 / 127 V ⁽¹⁾ / Three-phase 3 × 208 / 3 × 220 V (3P + N) ⁽¹⁾
Dynamic accuracy		± 2% dynamic
Static accuracy		± 1% steady
Response time accuracy		20 ms for load steps 0% ÷ 100% and voltage drop up to -5%
Total harmonic distortion (THDv) Linear load		<0.5%
Total harmonic distortion (THDv) Non-linear load		<1.5% (EN-62040-3)
Frequency		50/60 Hz ±0.05%
Total performance in On-line mode		7.5÷60 kVA: 92.0%÷93.0% / 80÷200 kVA: 94.0%÷95.0%
Admissible overloads		125% for 10 min / 150% for 60 s / >150% for 20ms
Crest factor		>3:1
BATTERY (OPTION)		Battery type
	Charging voltage regulation	Batt-Watch
COMMUNICATION	Ports	1 × RS232/RS485 + 1xUSB, with Modbus protocol
	Relay interface	4 × AC failure, bypass, low battery and general
	Intelligent slot	1, for SNMP
	Monitoring software	For Windows, Linux and Mac
GENERAL	Operating temperature	0° C ÷ +40° C
	Relative humidity	Up to 95%, non-condensing
	Maximum operating altitude	2,400 masl ⁽³⁾
	Acoustic noise at 1 metre	52 dB(A) ⁽²⁾
STANDARDS	Safety	EN-IEC 62040-1
	Electromagnetic compatibility (EMC)	EN-62040-2
	Corporate certification	ISO 9001, ISO 14001, ISO 45001

(1) Single-phase 120 / 127 V available up to 30 kVA inclusive and three-phase 3 x 208 / 3 x 220 V available up to 100 kVA inclusive.

(2) <65 dB(A) for 40 to 60 kVA models / <70 dB(A) for 80 and 100 kVA models.

(3) Power derating for higher altitudes up to 5000 masl.

Information subject to change without notice.

