

# SLC CUBE4

On-line double-conversion three-phase UPS from 7.5 to 80 kVA

## SLC CUBE4: The most advanced continuity protection on the market

Salicru's **SLC CUBE4** Uninterruptible Power Supplies (UPS) are the most cutting-edge security solution for all critical systems and sensitive loads. They have a Nimbus cloud connection as optional for equipment monitoring and remote management options, incident notification, equipment health monitoring and preventive maintenance.

With three-level on-line technology and quad-core DSP control, they are three-phase input/output systems that offer a range of first-class features, including unity power factor (kVA=kW), very low input distortion (THDi <3%) and performance in excess of 96% in On-line Mode and 99% in Eco Mode. They also boast parallel growth capacity or unlimited redundant security<sup>(1)</sup>.

Across the entire range, the batteries are included in the same cabinet, meaning the floor area occupied is reduced by up to 40%. They are compatible with all types of battery (including lithium-ion) and incorporate the Batt-Watch battery care system to maximise battery life and availability.

(1) For models up to 20 kVA. Maximum of four devices in parallel.



## Applications: Maximum quality in protection

The protection offered by Salicru's **SLC CUBE4** UPS will optimise the security performance of medium-power edge computing solutions with virtualised environments, along with all of the associated critical processes: not only for IT applications, but also for industrial processes, telecommunications and infrastructure.



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## Performances

- On-line double conversion technology with three-level topology.
- State-of-the-art quad-core DSP control.
- Output power factor 1 (kVA=kW).
- Input power factor >0.99.
- Input current distortion rate (THDi) <3%.
- Nimbus IoT (optional) connection for monitoring, through the free NIMBUS App and the web portal.
- High energy efficiency (over 96% in On-line mode and up to 99% in Eco mode).
- Unlimited parallel system<sup>(1)</sup> for redundancy or capacity purposes.
- Single/single and three/single configurations only for up to 20 kVA.
- Batt-Watch battery care and management system.
- Batteries included on standard models throughout the range.
- Compatible with all battery types, including lithium-ion.
- Compatible with power generators.
- 5" touch screen for all models.
- USB, RS-232 and RS-485 interfaces, plus relays.
- Wide range of options available.
- SLC Greenergy solution.

(1) For models up to 20 kVA. Maximum of four devices in parallel.



## Continuous surveillance

By integrating the equipment as feature of Salicru's Nimbus-cloud (optional), it is permanently monitored and provides a continuous analysis of the level of protection provided.



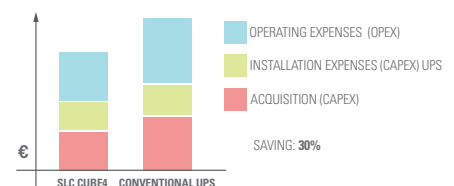
## Remote maintenance

There are multiple remote maintenance options through the Nimbus Services connections, both in modalities and response, allowing immediate actions in case of incidents or advances on anomalous situations.



## Very low TCO

The total cost of ownership (TCO) for an SLC CUBE4 has been carefully calculated in order to obtain a very low investment ratio over the operational lifetime of the UPS, leading to a saving of 30%.





## Range

MODEL	CODE	POWER (VA / W)	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)
SLC-7,5-CUBE4	6B3AA000001	7.500 / 7.500	689 × 250 × 827	88
SLC-10-CUBE4	6B3AA000002	10.000 / 10.000	689 × 250 × 827	98
SLC-15-CUBE4	6B3AA000003	15.000 / 15.000	689 × 250 × 827	118
SLC-20-CUBE4	6B3AA000004	20.000 / 20.000	689 × 250 × 827	132
SLC-30-CUBE4	6B3AC000001	30.000 / 30.000	910 × 380 × 1045	229
SLC-40-CUBE4	6B3AC000003	40.000 / 40.000	910 × 380 × 1045	334
SLC-50-CUBE4	6B3AD000002	50.000 / 50.000	920 × 560 × 1655	450
SLC-60-CUBE4	6B3AD000003	60.000 / 60.000	920 × 560 × 1655	450
SLC-80-CUBE4	6B3AD000001	80.000 / 80.000	920 × 560 × 1655	540

Nomenclature, dimensions and weights for devices with input voltage of 3 x 400 V, output voltage of 3 x 400 V and standard backup.  
This code corresponds only to the UPS module. Consult code for battery module.

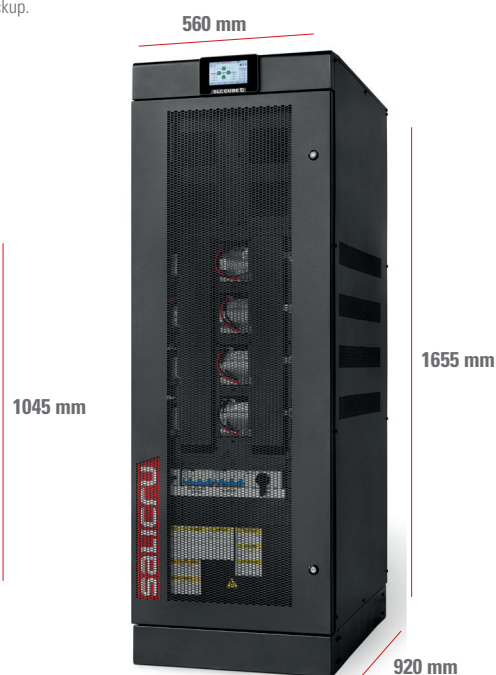
## Dimensions



SLC-7.5-20-CUBE4

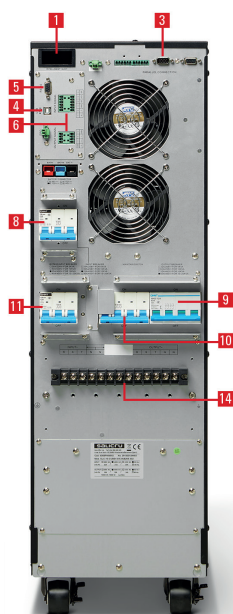


SLC-30-40-CUBE4

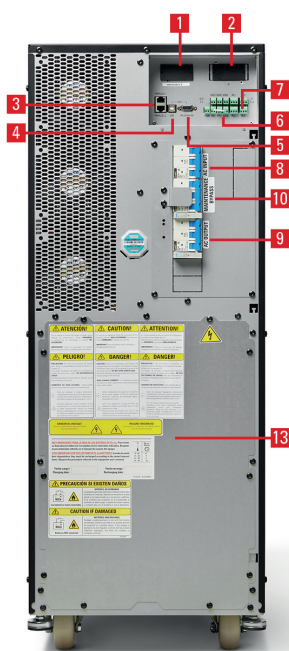


SLC-50-80-CUBE4

## Connections



SLC-7.5-20-CUBE4



SLC-30-40-CUBE4



SLC-50-80-CUBE4

1. Intelligent slot for nimbus cloud (optional)
2. Free communications slot
3. Parallel port
4. USB interface
5. RS-232/(485) interface
6. Digital Inputs
7. Relay indicators
8. Input circuit breaker/disconnector
9. Output circuit breaker
10. Manual bypass circuit breaker
11. Bypass circuit breaker
12. Battery disconnector
13. Connections cover
14. Inlet, outlet, bypass and earth connections

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## Technical specifications

MODEL		SLC CUBE4
TECHNOLOGY		On-line, double conversion, HF, DSP control
INPUT	Rated voltage	Three-phase 3 × 380 / 3 × 400 / 3 × 415 V (3F + N) <sup>(1)</sup>
	Voltage range	7.5÷20 kVA: 110÷300 V (F-N) / 30÷80 kVA: 115÷265 V (F-N)
	Rated frequency	50 / 60 Hz
	Frequency range	7.5 ÷ 20 kVA: 46 ÷ 54 Hz / 56 ÷ 64 Hz / 30 ÷ 80 kVA: 46 ÷ 64 Hz
	Total harmonic distortion (THDi)	7,5÷20 kVA: <4% / 30÷80 kVA: <3%
	Power factor	7.5÷20 kVA: ≥0.99 / 30÷80 kVA: 1 from 10% load
	Rectifier topology	Three-phase IGBT full wave, soft start, PFC, transformerless
OUTPUT	Power factor	1
	Rated voltage	Three-phase 3 × 380 / 3 × 400 / 3 × 415 V (3F + N) <sup>(1)</sup>
	Dynamic accuracy	±10%
	Static accuracy	7,5÷20 kVA: ±1% / 30÷80 kVA: ±0,5%
	Synchronised frequency	50/60 Hz ±5 Hz (selectable)
	Free running frequency	50/60 Hz ±0,5%
	Frequency	50 / 60 Hz
	Total performance in On-line mode	>96% <sup>(2)</sup>
	Performance in Smart Eco-mode	7,5÷20 kVA: 98% / 30÷80 kVA: 98,7%
	Admissible overloads	7.5 ÷ 20 kVA: 110% 60 min / 110~125% 10 min / 125~150% 60 s / >150% 1 s 30 ÷ 80 kVA: 125% 10 min / 125~135% 5 min / 135~150% 60 s / >150% immediate
	Crest factor	3:1
MANUAL BYPASS	Type	Uninterrupted
STATIC BYPASS	Type and activation criteria	Solid state
	Transfer times in Smart Eco-mode (ms)	<10 ms
	Transfer to bypass	Immediate, for overloads exceeding 150%
	Retransfer	Automatic, after alarm deactivation
BATTERY	Battery type	Pb-Ca, VRLA, lead acid, gel, Ni-Cd, Li-Ion
	Charging voltage regulation	Batt-Watch
COMMUNICATION	Ports	7,5 ÷ 20 kVA: 1xRS232 + 1xUSB / 30 ÷ 80 kVA: 1xRS232/485 + 1xUSB
	Relay interface	7.5÷20 kVA: 6 relays / 30÷80 kVA: 4 relays (programmable)
	Intelligent slot	NIMBUS, SNMP, RS232, RS485, USB, AS400 or remote battery temperature <sup>(3)</sup>
	Backlit LCD display	5" colour touch screen
GENERAL	Operating temperature	0° C ÷ +40° C <sup>(4)</sup>
	Relative humidity	Up to 95%, non-condensing
	Maxium operating altitude	2,400 masl <sup>(5)</sup>
	Acoustic noise at 1 metre	7,5÷20 kVA: <59 dB / 30÷40 kVA: <54 dB / 60÷80 kVA: <61,5 dB
STANDARDS	Safety	IEC/EN 62040-1
	Electromagnetic compatibility (EMC)	IEC/EN 62040-2 C3
	Operation	VFI-SS-11 (EN-62040-3)
	Corporate cerification	ISO 9001, ISO 14001, ISO 45001

(1) 1/1 options with power derating and 3/1 (under request)

(2) According to model

(3) For models 7,5-20 kVA = 1 Slot / For models 30-80 kVA = 2 Slots

(4) Up to 55°C with power derating

(5) Power degradation for temperature altitudes, up to a maximum of 5,000 masl

Information subject to change without notice.

