



SLC CUBE³

UNINTERRUPTIBLE POWER SUPPLY FROM 7.5 TO 200 kVA

► SLC CUBE³ : The most versatile solution in electrical protection

SALICRU, always faithful and committed to technological developments, has gone one step further and conceived a unit which, by bringing in state-of-the-art PWM-transformerless technology, can easily adapt to the most diverse and complicated loads, such as the non-linear systems (IT systems), strongly inductive or capacitive loads, discharge lamps, induction motors, . . . , and gives numerous benefits at the same time, such as: improving reliability and tolerance to failure, being totally flexible and adaptable to any working environment, giving greater security to the supplied loads, extending the life span of the batteries, enhancing considerable savings in consumed energy, in operating costs and temperature control needs, and being more respectful of the Environment.

The **SLC CUBE³** range, conceived with criteria of maximum efficiency and energy savings, covers power ratings from 7.5 to 200 kVA in a highly compact format making it easy to install and uses more than 60% recyclable materials. For highly critical installations or others in need of growth, the units can also be set up in parallel-redundant systems without any need for additional hardware, and each unit also has a wide range of communication possibilities and a large variety of options.

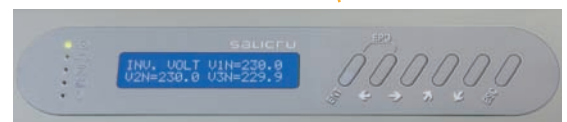
► PERFORMANCES

- On-line double conversion technology with DSP (Digital Signal Processor) control.
- Output power factor = 0.9.⁽¹⁾
- Efficiency up to 95%.
- Adaptive Feed forward Cancellation advanced control.
- Very low input current distortion (THDi up to < 1%).
- Unity input power factor (PF=1.0).
- Control designed to withstand any kind of load.
- Parallel/redundant set-up up to 4 units.
- Eco-mode function to increase energy savings.
- Batt-Watch battery monitoring and care.
- Calculation of the back-up available for lengthy power cuts.
- Space-saving compact format.
- Wide control and monitoring options.
- Total flexibility in single phase / three-phase input / output set-ups.⁽²⁾
- Large variety of options available.
- Materials over 60% recyclable.
- SLC Greenergy solution.

(1) Up to 120 kVA (2) Up to 60 kVA



► SLC CUBE³



► SLC CUBE³ display

► APPLICATIONS: The best protection for critical systems

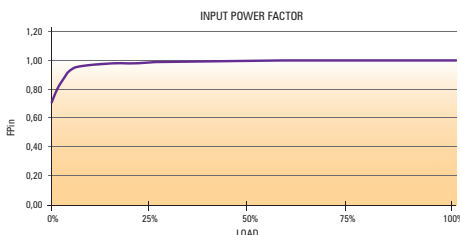
The great flexibility and adaptability of the **SALICRU SLC CUBE³** series make it the best option for protection and security for a wide range of installations: data centres (computing centres, centralised sales/distribution systems, hosting, housing...), IT-networks (server farms, local computer networks, network switches and hubs...), financial services (bank offices, automatic cash dispensers, card payment authorisation systems...), industrial processes (productive and control systems, industrial machinery, emergency and lighting systems...), telecommunications (voice and data networks, radio and TV systems, repeater stations...) and infrastructures (hospitals, airports, tunnels...).



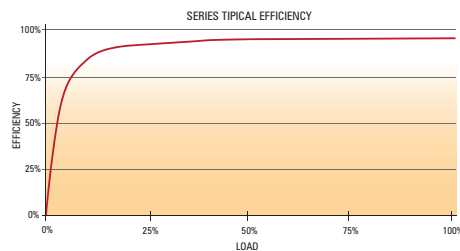
SLC CUBE³

BENEFITS

- High power factor (FP=1.0)



- High efficiency (>95%)



COMMUNICATIONS

- Interface to relays.
- RS-232/485 port.
- 1 x free slot.
- MODBUS/SEC protocol.
- 2 x connectors for parallel connection.

OPTIONS

- Extended autonomies.
- Isolation transformer.
- SICRES adapter for remote telemanagement.
- Ethernet / SNMP adapter or GPRS modem.
- Monitoring and management software.
- Shutdown software.
- 1 x additional RS-232 / 485 serial port.
- Temperature and humidity sensors.
- External display.
- External manual bypass.
- Frequency converter function.
- BACS II, monitoring, regulation and alarms for batteries.

SERVICE & technical support

- Advisory service before and after the sale.
- Start up.
- Telephone technical support.
- Preventive / corrective interventions.
- Maintenance contracts.
- Telemaintenance contracts (SICRES).
- Training courses.

UNINTERRUPTIBLE POWER SUPPLIES FROM 7.5 TO 200 kVA

TECHNICAL SPECIFICATIONS

MODEL		SLC CUBE ³	
TECHNOLOGY		On-line, double conversion, HF, DSP control	
INPUT	Nominal voltage	Single phase 220 / 230 / 240 V Three-phase 3 x 380 / 3 x 400 / 3 x 415 V (3Ph + N)	
	Voltage margin	+15% / -20 % (@ 3x400 V / 230 V Ph-N)	
	Frequency	50/60 Hz	
	Total Harmonic Distortion (THDi)	7.5 ÷ 20 kVA 100% load: <1.5% / 50% load: <2.5% / 10% load: <6.0% 30 ÷ 80 kVA 100% load: <1.0% / 50% load: <2.0% / 10% load: <5.0% 100 ÷ 200 kVA 100% load: <2.0% / 50% load: <4.0% / 10% load: <8.0%	
	Power factor	>0.99 from 10% load / 1 @ 100% load	
OUTPUT	Nominal voltage	Single phase 220 / 230 / 240 V Three-phase 3 x 380 / 3 x 400 / 3 x 415 V (3Ph + N)	
	Precision	Steady state	±1%
		Dynamic state	±2% (load variations 100% - 0% - 100%)
	Frequency	Synchronised	50 / 60 Hz ±4% (selectable)
		Free running	50/60 Hz ±0.05%
	Max. synchronisation speed	From 1 Hz/s to 10 Hz/s (programmable)	
	Total Harmonic Distortion (THDv)	Linear load	<0.5%
		Non-linear load	7.5 ÷ 80 kVA: <1.5% / 100 ÷ 200 kVA: <2% (EN-62040-3)
	Admissible overload	125% for 10 min. / 150% for 60 s.	
	Admissible crest factor	>3:1	
Admissible power factor	0.7 inductive to 0.7 capacitive (Totally capacitive or totally inductive in a single phase)		
Efficiency	7.5 ÷ 60 kVA: 92.0% ÷ 93.0% / 80 ÷ 200 kVA: 94.0% ÷ 95.0%		
STATIC BYPASS	Type and activation criteria	Solid state, control by microprocessor	
	Voltage	Single phase 220 / 230 / 240 V Three-phase 3 x 380 / 3 x 400 / 3 x 415 V (3Ph + N)	
	Frequency	50/60 Hz	
	Transfer time	Nil	
	Transfer to bypass	Immediate for overloads of over 150%	
MANUAL BYPASS	Type	Without interruption	
	Voltage	Single phase 220 / 230 / 240 V Three-phase 3 x 380 / 3 x 400 / 3 x 415 V (3Ph + N)	
	Frequency	50/60 Hz	
RECTIFIER	Structure	Three-phase IGBT complete wave, soft start and PFC	
	Protection	Against transitory overvoltages	
BATTERIES	Type	Lead acid, sealed, maintenance free	
	Protection	Against overvoltages and undervoltages	
	Charge voltage regulation	Batt-Watch	
COMMUNICATION	Ports	RS-232/485	
	Interface to relays	AC failure, bypass, low battery and general	
GENERALS	Operating temperature	0° C ÷ +40° C	
	Relative humidity	Up to 95% non-condensing	
	Operating altitude	2,400 m.a.s.l.	
	Acoustic noise @ 1 metre	<52 dB ⁽¹⁾	
STANDARDS	Safety	EN-62040-1-2; EN-60950-1	
	Electromagnetic Compatibility (EMC)	EN-62040-2	
	Operating	VFI-SS-111 according to EN-62040-3	
	Quality and Environmental Management	ISO 9001 and ISO 14001	

(1) < 65 dB from 80 kVA model

Data liable to changes without prior notice

RANGE

MODEL	POWER ⁽¹⁾ (kVA / kW)	CABINETS No. (UPS + BAT)	UPS DIMENSIONS (D x W x H mm.)	WEIGHT (Kg)	BAT DIMENSIONS ⁽²⁾ (D x W x H mm.)	WEIGHT (Kg)
SLC-7.5-CUBE3	7.5 / 6.75	1 + -	700 x 450 x 1100	247	-	-
SLC-10-CUBE3	10 / 9	1 + -	700 x 450 x 1100	249	-	-
SLC-15-CUBE3	15 / 13.5	1 + -	700 x 450 x 1100	251	-	-
SLC-20-CUBE3	20 / 18	1 + -	700 x 450 x 1100	253	-	-
SLC-30-CUBE3	30 / 27	1 + -	805 x 590 x 1320	469	-	-
SLC-40-CUBE3	40 / 36	1 + -	805 x 590 x 1320	574	-	-
SLC-50-CUBE3	50 / 45	1 + 1	805 x 590 x 1320	200	980 x 650 x 1320	710
SLC-60-CUBE3	60 / 54	1 + 1	805 x 590 x 1320	200	980 x 650 x 1320	710
SLC-80-CUBE3	80 / 72	1 + 1	805 x 590 x 1320	225	980 x 650 x 1320	1020
SLC-100-CUBE3	100 / 90	1 + 1	805 x 590 x 1320	250	980 x 650 x 1320	1020
SLC-120-CUBE3	120 / 108	1 + 1	805 x 590 x 1320	260	980 x 650 x 1320	1020
SLC-160-CUBE3	160 / 128	1 + 1	850 x 900 x 2000	560	850 x 1300 x 1900	1655
SLC-200-CUBE3	200 / 160	1 + 1	850 x 900 x 2000	575	850 x 1300 x 1900	1690

(1) OUTPUT POWER FACTOR = 1 UNDER REQUEST

(2) For standard autonomies

902 48 24 00*
+34 93 848 24 00**
WWW.SALICRU.COM

SALICRU

AVDA. DE LA SERRA, 100 - 08460 PALAUORDERA - SPAIN - FAX +34 93 848 11 51

