



# SLC CUBE STR

## ON-LINE THREE-PHASE UPS FROM 7.5 TO 80 kVA

### ► SLC CUBE STR: The latest developments in three-phase power supplies

The **SALICRU SLC CUBE STR** series gathers the latest developments in power electronics applied to quality AC electrical power supply. The new DSP control microprocessors are up to 200 times faster than a standard microprocessor, which means, amongst other things, that the available power sources can be better used without passing to by-pass or shutting down, and the potential situations of failure can be better detected.

A power factor close to one unit, a very low harmonic distortion level, the capacity for redundant parallel and a broader margin of input voltages are others of the characteristics that make this series unique.

The powers range from 7.5 to 80 kVA, thus covering the large part of the medium power three-phase applications.

### ► PERFORMANCES

- Power topology On-line double conversion without transformer, smaller and lighter.
- High frequency rectifier and inverter (HF) by IGBT transistors.
- Power factor > 0.99.
- Total harmonic distortion of input current (THDi) of 3%.
- DSP state-of-the-art control in rectifier, inverter and bypass.
- High output > 92%.
- Configurations in redundant parallel. <sup>(1)</sup>
- Standard maintenance bypass.
- Wide range of input voltages, smaller use of the battery and the bypass.
- Intelligent battery changing system (Batt-Watch).
- RS-232, RS-422 and AS-400 standard communication ports.
- Automatic battery test.
- Management and communication software. <sup>(1)</sup>
- Soft Start.
- Expanded log of 380 events.
- Advanced communication with power generator units.



► SLC CUBE STR model

► SLC CUBE STR LCD panel

### ► APPLICATIONS: Quality supply for critical systems

- Information technologies (IT).
- Telecommunications systems.
- Industrial and control processes.
- Industrial machinery.
- Instrumentation and laboratory.
- Local LAN computer networks.
- Server farms.
- Radio and TV systems.
- Emergency and lighting systems.
- Hospitals and medical centres.
- Voice and data networks.
- Switches and network hubs.
- Data centres.
- Centralised sale/distribution systems.
- Computing centres.
- Large corporation installations.
- Military applications.
- Security and transport systems.

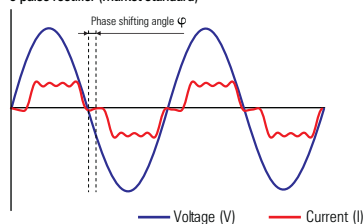
(1) Option

# SLC CUBE STR

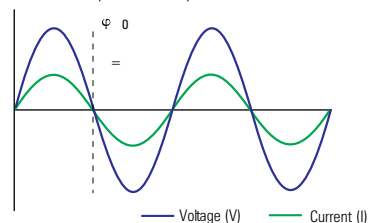
## BENEFITS

- ▶ High power factor (> 0,99) and low distortion (3%)

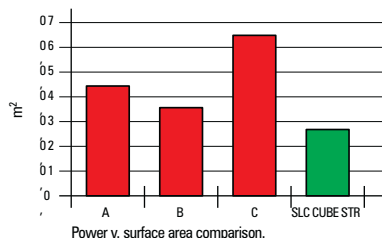
6 pulse rectifier (market standard)



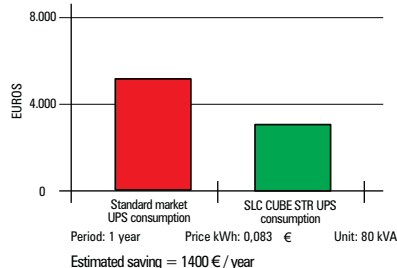
Active rectifier (SLC CUBE STR)



- ▶ Smaller occupied surface area



- ▶ Larger energy savings



## OPTIONS

- ▶ Parallel kit.
- ▶ Extended autonomies
- ▶ Independent bypass line.
- ▶ External manual bypass.
- ▶ Remote control.
- ▶ Separator transformer.

## COMMUNICATION & services

- ▶ RS-232 and RS-422 series ports.
- ▶ Relay interface (AS-400).
- ▶ Management and communication softwares. <sup>(1)</sup>
- ▶ Integration in computer networks by SNMP adapter. <sup>(1)</sup>
- ▶ Pre-sale and after-sale advisory service.
- ▶ Multiple formulae of maintenance and telemaintenance (SICRES).

(1) Optional



# ON-LINE THREE-PHASE UPS FROM 7.5 TO 80 kVA

## TECHNICAL SPECIFICATIONS

MODEL		SLC CUBE STR	
TECHNOLOGY		On-line, double conversion, HP, DSP control	
INPUT	Nominal voltage	3 x 380 / 3 x 400 / 3 x 415 V	
	Voltage range	3 x 138 ÷ 485 V <sup>(2)</sup>	
	Frequency range	45 ÷ 65 Hz	
	Power factor	> 0,99	
	Total harmonic distortion (THDi)	3%	
OUTPUT	Nominal voltage	3 x 380 / 3 x 400 / 3 x 415 V	
	Accuracy	Steady state	± 1%
		Dynamic state	± 2%
	Frequency	Synchronised	50 / 60 Hz ± 3 Hz
		Free running	50 / 60 Hz ± 0,01%
	Maximum slew rate	± 1 Hz / s	
	Efficiency	> 92% at full load	
	Total harmonic distortion (THDv)	≤ 3%	
	Permissible overload	150% for > 1 minute; 125% for > 10 minutes	
	Crest factor	3 to 1	
Permissible load power factor	From 0,7 lagging to 0,7 leading		
STATIC BYPASS	Type and activation criteria	Solid state, DSP control	
	Transfer time	Nil	
	Nominal voltage	3 x 380 / 3 x 400 / 3 x 415 V	
	Permissible voltage range	± 10% (Selectable)	
	Permissible frequency range	50 / 60 Hz ± 3 Hz (Selectable)	
MANUAL BYPASS	Re-transference	Automatic by alarm situation cancelling	
	Transfer type	Manual	
	Voltage	3 x 380 / 3 x 400 / 3 x 415 V	
RECTIFIER	Frequency	50 / 60 Hz	
	Structure	Three phase IGBT, full wave, soft start and PFC	
BATTERIES	Protection	Against transient overvoltages	
	Type	Lead acid, sealed, maintenance free	
COMMUNICATION	Recharging time	4 hours up to 80% of the capacity	
	Protection	Against overvoltages, undervoltages, and alternating current component	
	Charge voltage management	Batt-Watch	
	Ports	RS-232 / RS-422	
	Relay interface (AS-400)	AC fault, bypass, low battery, output fault	
GENERALS	Operating temperature	0° C ÷ + 40° C	
	Relative humidity	Up to 95%, non-condensing	
	Operating altitude	2400 m.a.s.l.	
	Acoustic noise at 1 metre	< 52 dB at 100% load	
STANDARDS	Safety	EN-62040-1-2 ; EN-60950-1	
	Electromagnetic compatibility (EMC)	EN-62040-2	
	Operating	VFI-SS-111 in accordance with EN 62040-3	
	Marking	CE	
	Quality and environmental management	ISO 9001 and ISO 14001 TÜV	

(2) At 42% load

## RANGE

MODEL	POWER (kVA / kW)	CABINET Nr. UPS + BAT	UPS DIMENSIONS <sup>(3)</sup> (D x W x H mm)	WEIGHT (Kg)	UPS DIMENSIONS <sup>(3)</sup> (D x W x H mm)	WEIGHT (Kg)
SLC-7.5-CUBE STR	7.5 / 6	1 + -	760 x 400 x 1060	333	-	-
SLC-10-CUBE STR	10 / 8	1 + -	760 x 400 x 1060	335	-	-
SLC-15-CUBE STR	15 / 12	1 + -	760 x 400 x 1060	340	-	-
SLC-20-CUBE STR	20 / 16	1 + -	760 x 400 x 1060	343	-	-
SLC-30-CUBE STR	30 / 24	1 + 1	760 x 400 x 1060	190	770 x 400 x 1065	478
SLC-40-CUBE STR	40 / 32	1 + 1	880 x 525 x 1310	240	770 x 400 x 1065	478
SLC-50-CUBE STR	50 / 40	1 + 1	880 x 525 x 1310	250	1165 x 835 x 1300	721
SLC-60-CUBE STR	60 / 48	1 + 1	880 x 525 x 1310	260	1165 x 835 x 1300	721
SLC-80-CUBE STR	80 / 64	1 + 1	990 x 630 x 1380	280	1165 x 835 x 1300	1105

(3) Standard autonomy for 3 x 400 V input / output voltages. For other dimensions, weights and configurations consult.

OFFICE GERMANY

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ED. MAY 2008

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UNINTERRUPTIBLE POWER SUPPLY (UPS)

Data liable to changes without prior notice.

(\*) Spain only (\*\*) Rest of World