



SLC CUBE STR

THREE PHASE ON-LINE UPS FROM 7,5 TO 80 kVA

► SLC CUBE STR: The last advances in three phase power supply

The **SLC CUBE STR** series of **SALICRU** gathers the last innovations in power electronic applied to the alternating current power supply of quality. The new digital signal processors (DSP) of control are till 200 times quicker than a standard microprocessor, so it allows, among others advantages, to use the available energy sources better, without transferring to bypass or shutdown it, and improving the potential situations of failure.

A power factor close to unit, a very low distortion level, the parallel redundant capacity or a wide input voltage range are other features that make this series unique.

The power range goes from 7,5 to 80 kVA, so it covers most of the three phase applications of medium power.

► QUALITY PERFORMANCES

- Transformerless On-line double conversion power topology, lower weight and dimensions.
- High frequency inverter and rectifier by means of IGBT transistors.
- Power factor > 0,99.
- Total input current harmonic distortion (THDi) of 3%.
- DSP control of last generation in rectifier, inverter and bypass.
- High efficiency > 92%.
- Parallel redundant configurations. ⁽¹⁾
- Maintenance bypass as standard.
- Wide input voltage range, less battery and bypass use.
- Intelligent system to charge the batteries (Batt-Watch).
- Communication ports RS-232, RS-422 and AS-400 as standard.
- Automatic battery test.
- Monitoring and management software. ⁽¹⁾
- Soft start up.
- Enlarged data logger with 380 events.
- Advanced communication with generators.



► SLC CUBE STR equipment

► SLC CUBE STR LCD panel

► APPLICATIONS: Quality power supply for critical systems

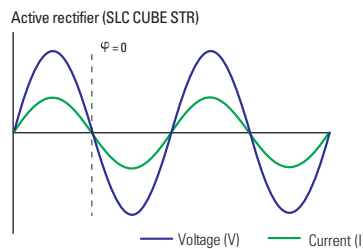
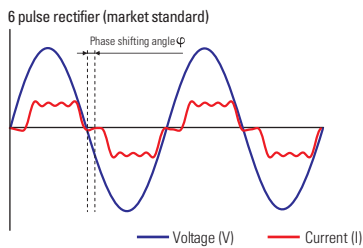
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|-------------------------------------|-----------------------------------|---|
| ► Information technology (IT). | ► Server farms. | ► Data centers. |
| ► Telecommunication system. | ► Radio and TV systems | ► Centralised sales/distribution systems. |
| ► Industrial and control processes. | ► Emergency and lighting systems. | ► Computer centers. |
| ► Industrial machinery. | ► Hospitals and medical centers. | ► Installation in big corporations. |
| ► Instrumentation and laboratory. | ► VOIP. | ► Military applications. |
| ► Local IT networks (LAN). | ► IT switches and hubs. | ► Safety and transport systems. |

(1) Option

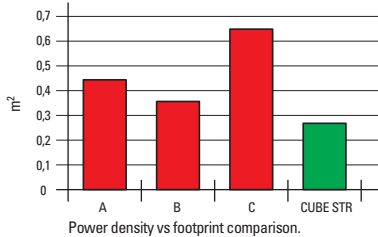
SLC CUBE STR

► CONTRIBUTED benefits

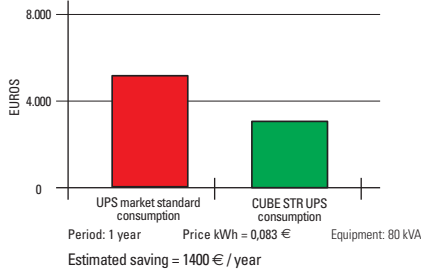
- High power factor (> 0,99) and low distortion (3%)



- Small footprint



- Higher economy savings



► OPTIONAL

- Parallel kit.
- Extended back up times.
- Separate bypass line.
- External manual bypass.
- Remote control.
- Isolation transformer.

► COMMUNICATION & services

- Serial ports RS-232 and RS-422.
- Relay interface (AS-400).
- Monitoring and management softwares.
- IT network integration by means of SNMP adaptor.
- Before and after sales advising.
- Multiple formulas of maintenance and telemaintenance (SICRES).

(1) Optional



THREE PHASE ON-LINE 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 ⁽²⁾	
	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)	
	Re-transference	Automatic by alarm situation cancelling	
MANUAL BYPASS	Transfer type	Manual	
	Voltage	3 x 380 / 3 x 400 / 3 x 415 V	
	Frequency	50 / 60 Hz	
RECTIFIER	Structure	Three phase IGBT, full wave, soft start and PFC	
	Protection	Against transient overvoltages	
BATTERIES	Type	Lead acid, sealed, maintenance free	
	Recharging time	4 hours up to 80% of the capacity	
	Protection	Against overvoltages, undervoltages, and alternating current component	
	Charge voltage management	Batt-Watch	
COMMUNICATION	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 1m	< 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 ⁽³⁾ (D x W x H mm)	WEIGHT (Kg)	UPS DIMENSIONS ⁽³⁾ (D x W x H mm)	WEIGHT (Kg)
SLC-7,5-CUBE STR	7,5 / 6	1 + -	750 x 400 x 1070	333	-	-
SLC-10-CUBE STR	10 / 8	1 + -	750 x 400 x 1070	335	-	-
SLC-15-CUBE STR	15 / 12	1 + -	750 x 400 x 1070	340	-	-
SLC-20-CUBE STR	20 / 16	1 + -	750 x 400 x 1070	343	-	-
SLC-30-CUBE STR	30 / 24	1 + 1	750 x 400 x 1070	190	750 x 400 x 1070	478
SLC-40-CUBE STR	40 / 32	1 + 1	900 x 520 x 1300	240	750 x 400 x 1070	478
SLC-50-CUBE STR	50 / 40	1 + 1	900 x 520 x 1300	250	600 x 1110 x 1300	721
SLC-60-CUBE STR	60 / 48	1 + 1	900 x 520 x 1300	260	600 x 1110 x 1300	721
SLC-80-CUBE STR	80 / 64	1 + 1	900 x 520 x 1300	280	600 x 1110 x 1300	1105

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

Data liable to changes without prior notice.

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