



SLC TWIN

ON-LINE DOUBLE CONVERSION UPS 700 VA - 20 kVA

► SLC TWIN: The parallel power supply for single phase loads

The **SLC TWIN** series of **SALICRU** has been designed to contribute with the needed flexibility to medium UPS power rates, because it's where is indispensable to combine a protection of first magnitude with the capacity of adaptation to different applications.

This is why the **SLC TWIN** series incorporates, as the most important feature, the capacity of growing in parallel, up to 3 units, with or without redundancy, with the purpose to get a real upgrade, and this way, avoiding to replace the before UPS installed in front of a higher requirement, so much qualitative as quantitative, of the different users.

Manufactured in a wide power range, from 700 VA to 20 kVA, it is made up by equipments with single phase input - from 700 VA to 10 kVA - or three phase one – from 8 to 20 kVA -, and always with single phase output.

Also, among many other advantages, the series includes rectifier with Soft Start, inaudible switching operating frequency at 20 kHz, power factor > 0,98⁽¹⁾ and output accuracy better than 1%⁽¹⁾.

► QUALITY PERFORMANCES

- On-line double conversion technology.
- Parallel operating without needing a centralised bypass.⁽¹⁾
- Parallel capacity up to 3 equipments.⁽¹⁾
- Parallel cable included, as standard.⁽¹⁾
- Possibility of extended back up times.
- Battery test, as standard.
- PFC (Power Factor Corrector) and Soft Start rectifier.
- Power factor > 0,98.⁽¹⁾
- Make before break manual bypass.⁽¹⁾
- Isolation transformer.⁽²⁾
- PWM inverter with IGBT transistors.
- Control panel with block diagram, LCD panel and keypad.
- Extended communications with RS-232 (as standard) and USB ports⁽²⁾, SNMP⁽²⁾ and AS-400⁽²⁾.
- MODBUS communication protocol.⁽²⁾
- Monitoring software included.
- 19" rack format up to 6 kVA.



► SLC TWIN



► SLC TWIN RACK 19"

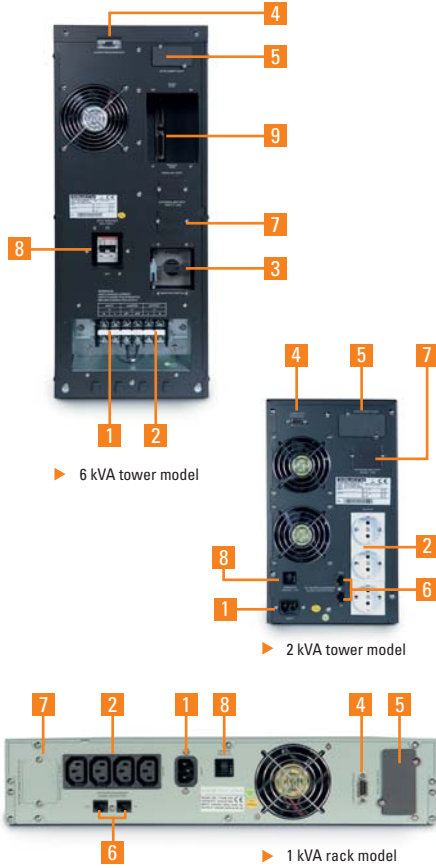
► APPLICATIONS: A high standing power supply for medium powers.

The losses of information in the computer environments are originated in 45% by problems in the electrical power supply, without taking care about the losses in productivity due to the inactivity and to the resources needed to restore the originated damages. All the processes that require a reliable, safe, continuous and quality power supply need to be protected and fed by UPS from **SLC TWIN** series of **SALICRU**. Specially designed to protect departmental networks, workstations and their associate peripherals, servers, telephony-VOIP, industrial processes, medical equipment, etc.

(1) Depending on the model
(2) Optional

DESCRIPTION

1. AC input.
2. AC output.
3. Maintenance bypass.
4. RS-232 interface.
5. Intelligent slot (SNMP, USB, AS-400).
6. Data line protection RJ-11/RJ-45.
7. Battery module connection.
8. Input protection.
9. Parallel port.



ADAPTABILITY

- Extended back up times. ⁽¹⁾
- Galvanic isolation. ⁽¹⁾
- Other input / output voltages. ⁽¹⁾
- Tower or 19" rack formats.
- Single or three phase input.
- Parallel redundant system ≥ 4 kVA.

COMMUNICATIONS

- RS-232 interface.
- Monitoring software.
- SNMP / Web adapter. ⁽¹⁾
- AS-400 card. ⁽¹⁾
- USB port card. ⁽¹⁾
- MODBUS protocol. ⁽¹⁾
- Temperature-humidity sensor. ⁽¹⁾

SERVICES

- Before and after sales advice service.
- Multiple formulas of maintenance and telemaintenance (SICRES).

(1) Optional



ON-LINE DOUBLE CONVERSION UPS

700 VA - 20 kVA



TECHNICAL SPECIFICATIONS

MODEL	SLC TWIN 700 VA - 10 kVA	SLC TWIN/3 8 kVA - 20 kVA	
FORMAT	Tower or rack ⁽²⁾	Tower	
TECHNOLOGY	On-line, double conversion, PFC, double DC bus		
INPUT	Nominal voltage	220 / 230 / 240 V	
	Voltage range	176 ÷ 276 V	
	Frequency	50 / 60 Hz	
	Frequency range	± 4 Hz	
	Power factor	$\geq 0,98$ ⁽²⁾	
	Rectifier structure	PFC with Soft Start	
	Nominal voltage	220 / 230 / 240 V	
	Voltage accuracy ⁽²⁾	± 1% steady state; ± 2% transient state	
	Maximum slew rate	1 Hz / s	
OUTPUT	Synchronisation	Mains present ± 4 Hz; free running ± 0,05 Hz ⁽²⁾	
	Efficiency	> 88% at full load	
	Total harmonic distortion (THDv) ⁽²⁾	≤ 2% linear load; ≤ 6% non-linear load (in accordance with EN 62040-3)	
	Permissible overloads ⁽³⁾	Up to 130% for 10 minutes; > 130% for 1 second	
	Crest factor	3 to 1	
	BYPASS	Nominal voltage	220 / 230 / 240 V
		Permissible voltage range	± 15%
		Permissible frequency range	50 / 60 Hz ± 4 Hz
	BATTERIES	Battery type	Sealed, maintenance free
Protection		Against overvoltages, under voltages and alternating current component	
CHARGER		Technology	PWM
	Charge type	P/U (Constant power - Constant voltage)	
	Recharging time	7 hours up to 90% 8 hours up to 90%	
COMMUNICATION	Ports	RS-232	
	Monitoring software	For platforms Windows family, Linux and Mac	
GENERALS	Operating temperature	0° C ÷ + 40° C	
	Relative humidity	Up to 95%, non-condensing	
	Operating altitude	2400 m.a.s.l.	
	Acoustic noise level at 1metre	< 45 dB ⁽²⁾ < 60 dB	
STANDARDS	Safety	EN 62040-1; EN 60950-1; EN 60529	
	Electromagnetic compatibility (EMC)	EN 62040-2	
	Operating	VFI in accordance with 62040-3	
	Marking	CE	
Quality and environmental management	ISO-9001 and ISO 14001 TÜV		

(2) Depending on the model

(3) On line mode

Data liable to changes without prior notice.

RANGE

TOWER MODEL	POWER (VA / W)	DIMENSIONS (Dx W x H mm)	WEIGHT (Kg)	INPUT / OUTPUT
SLC - 700 - TWIN	700 / 490	400 x 145 x 200	13	II / II
SLC - 1000 - TWIN	1000 / 700	400 x 145 x 200	14	II / II
SLC - 1500 - TWIN	1500 / 1050	460 x 195 x 340	34	II / II
SLC - 2000 - TWIN	2000 / 1400	460 x 195 x 340	34,5	II / II
SLC - 3000 - TWIN	3000 / 2100	460 x 195 x 340	35,5	II / II
SLC - 4000 - TWIN	4000 / 2800	570 x 260 x 717	84	II / II
SLC - 5000 - TWIN	5000 / 3500	570 x 260 x 717	87	II / II
SLC - 6000 - TWIN	6000 / 4200	570 x 260 x 717	90	II / II
SLC - 8000 - TWIN	8000 / 5600	570 x 260 x 717 ⁽⁴⁾	92 ⁽⁵⁾	II or III / II
SLC - 10000 - TWIN	10000 / 7000	570 x 260 x 717 ⁽⁴⁾	93 ⁽⁵⁾	II or III / II
SLC - 12000 - TWIN	12000 / 8400	570 x 260 x 717 (x2)	52 + 123	III / II
SLC - 15000 - TWIN	15000 / 10500	570 x 260 x 717 (x2)	52 + 123	III / II
SLC - 20000 - TWIN	20000 / 14000	570 x 260 x 717 (x2)	52 + 123	III / II

(4) Two modules for SLC TWIN/3 versions

(5) 38+69 for SLC TWIN/3 versions

RACK 19" MODEL	POWER (VA / W)	DIMENSIONS (Dx W x H mm)	WEIGHT (Kg)	INPUT / OUTPUT
SLC - 700 - TWIN R	700 / 490	450 x 483 x 84 (2U)	15	II / II
SLC - 1000 - TWIN R	1000 / 700	450 x 483 x 84 (2U)	16	II / II
SLC - 1500 - TWIN R	1500 / 1050	450 x 483 x 84 (2U) x2	10 + 25	II / II
SLC - 2000 - TWIN R	2000 / 1400	450 x 483 x 84 (2U) x2	10,3 + 25	II / II
SLC - 3000 - TWIN R	3000 / 2100	450 x 483 x 84 (2U) x2	11,2 + 25	II / II
SLC - 4000 - TWIN R	4000 / 2800	600 x 483 x 130 (3U) x2	17 + 65	II / II
SLC - 5000 - TWIN R	5000 / 3500	600 x 483 x 130 (3U) x2	18 + 65	II / II
SLC - 6000 - TWIN R	6000 / 4200	600 x 483 x 130 (3U) x2	19 + 65	II / II

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