



SLC TWIN

ON-LINE DOUBLE CONVERSION UPS 700 VA - 20 kVA



► SLC TWIN: Parallel supply for single phase loads

The **SALICRU SLC TWIN** series has been conceived to provide the necessary flexibility to the range of medium power UPS, as it is here where it is necessary to combine leading protection with the capacity to adapt to the different applications.

Therefore the most important services of the **SLC TWIN** series is its capacity to grow in parallel up to 3 units, with or without redundancy, in order to achieve real upgrading and thus avoid having to change the UPS in greater qualitative and quantitative demands from the different consumers.

Made in a range of powers from 700 VA to 20 kVA, the range is made up of units with single phase input – from 700 VA to 10 kVA – or three-phase – from 8 to 20 kVA –, always with single phase output.

Moreover, amongst many other advantages, the series includes a rectifier with Soft Start, working at inaudible switching frequency at 20 kHz, power factor > 0.98 ⁽¹⁾ and output precision better than 1% ⁽¹⁾.

► PERFORMANCES

- On-line double conversion technology.
- Parallel operation without any need for centralised bypass. ⁽¹⁾
- Parallel capacity up to 3 units. ⁽¹⁾
- Parallel cable, standard. ⁽¹⁾
- Possible extended autonomies.
- Battery test, standard.
- Rectifier with PFC (power factor corrector) and Soft Start.
- Power factor > 0.98. ⁽¹⁾
- Manual bypass interruption-free. ⁽¹⁾
- Separator transformer. ⁽²⁾
- PWM inverters and IGBT transistors.
- Control panel with block diagram, LCD display and keyboard.
- Communications extended with RS-232 (standard), USB ⁽²⁾, SNMP ⁽²⁾ and AS-400 ⁽²⁾ ports.
- MODBUS communications protocol. ⁽²⁾
- Standard monitoring software.
- Models in 19" rack up to 6 kVA.



► SLC TWIN models



► SLC TWIN RACK 19"

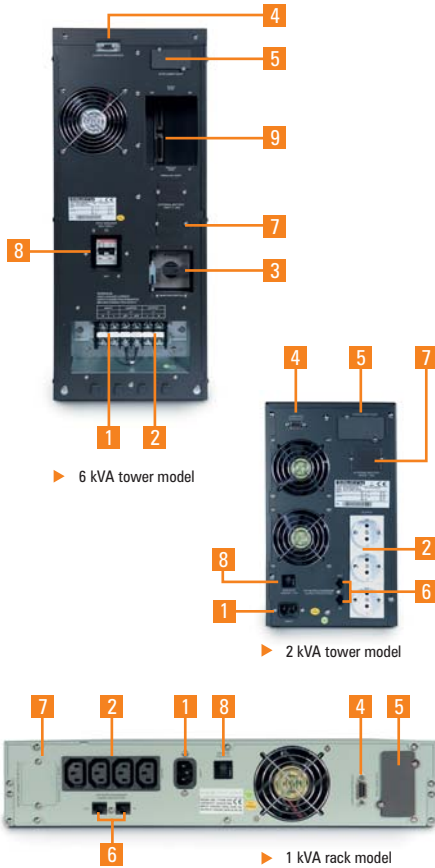
► APPLICATIONS: High line power supply for medium powers

Information losses in computer environments are caused in 45% of cases by problems in the electrical supply, without counting the losses in productivity derived from the inactivity and the resources needed to restore the damage caused. All processes that require a reliable, continuous, quality power supply are protected and supplied by a **SALICRU SLC TWIN** series UPS. Especially conceived to protect departmental networks, work stations and their associated peripherals, servers, VOIP telephony, 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 autonomies. ⁽¹⁾
- Galvanic isolation. ⁽¹⁾
- Other input / output voltages. ⁽¹⁾
- Tower or 19" rack format.
- Single or three-phase input.
- Redundant parallel system ³ 4 kVA.

COMMUNICATIONS

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

SERVICES

- Pre-sale and after sale advisory service.
- Multiple formulae for 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 | ³ 0,98 ⁽²⁾ / ³ 0,95 | |
| | Rectifier structure | PFC with Soft Start | |
| | OUTPUT | Nominal voltage | 220 / 230 / 240 V |
| Voltage accuracy ⁽²⁾ | | ± 1% steady state; ± 2% transient state | |
| Maximum slew rate | | 1 Hz / s | |
| 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

RANGE

| TOWER MODEL | POWER (VA / W) | DIMENSIONS (Dx W x H mm) | WEIGHT (Kg) | INPUT / OUTPUT |
|--------------------|-------------------|--------------------------------|-------------------|----------------|
| SLC - 700 - TWIN | 700 / 490 | 410 x 145 x 220 | 13 | II / II |
| SLC - 1000 - TWIN | 1000 / 700 | 410 x 145 x 220 | 14 | II / II |
| SLC - 1500 - TWIN | 1500 / 1050 | 470 x 195 x 347 | 34 | II / II |
| SLC - 2000 - TWIN | 2000 / 1400 | 470 x 195 x 347 | 34,5 | II / II |
| SLC - 3000 - TWIN | 3000 / 2100 | 470 x 195 x 347 | 35,5 | II / II |
| SLC - 4000 - TWIN | 4000 / 2800 | 575 x 260 x 717 | 84 | II / II |
| SLC - 5000 - TWIN | 5000 / 3500 | 575 x 260 x 717 | 87 | II / II |
| SLC - 6000 - TWIN | 6000 / 4200 | 575 x 260 x 717 | 90 | II / II |
| SLC - 8000 - TWIN | 8000 / 5600 | 575 x 260 x 717 ⁽⁴⁾ | 92 ⁽⁵⁾ | II or III / II |
| SLC - 10000 - TWIN | 10000 / 7000 | 575 x 260 x 717 ⁽⁴⁾ | 93 ⁽⁵⁾ | II or III / II |
| SLC - 12000 - TWIN | 12000 / 8400 | 575 x 260 x 717 (x 2) | 52 + 123 | III / II |
| SLC - 15000 - TWIN | 15000 / 10500 | 575 x 260 x 717 (x 2) | 52 + 123 | III / II |
| SLC - 20000 - TWIN | 20000 / 14000 | 575 x 260 x 717 (x 2) | 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) (x 2) | 10 + 25 | II / II |
| SLC - 2000 - TWIN R | 2000 / 1400 | 450 x 483 x 84 (2U) (x 2) | 10,3 + 25 | II / II |
| SLC - 3000 - TWIN R | 3000 / 2100 | 450 x 483 x 84 (2U) (x 2) | 11,2 + 25 | II / II |
| SLC - 4000 - TWIN R | 4000 / 2800 | 600 x 483 x 130 (3U) (x 2) | 17 + 65 | II / II |
| SLC - 5000 - TWIN R | 5000 / 3500 | 600 x 483 x 130 (3U) (x 2) | 18 + 65 | II / II |
| SLC - 6000 - TWIN R | 6000 / 4200 | 600 x 483 x 130 (3U) (x 2) | 19 + 65 | II / II |

Values for standard autonomies

For other configurations, consult dimensions and weights

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