salicru

UNINTERRUPTIBLE POWER SUPPLY SYSTEMS (UPS)
STABILISERS-STEP-DOWN LIGHT DIMMERS
POWER SUPPLY
STATIC INVERTERS
PHOTOVOLTAIC INVERTERS
VOLTAGE STABILISERS
VARIABLE FREQUENCY DRIVES
TECHNICAL SERVICE AND SUPPORT

# SLC TWIN PRO2

On-line double conversion UPS from 4 to 20 kVA

## SLC TWIN PRO2: Enhanced protection for mid-range systems with single-phase power supply

SALICRU's **SLC TWIN PRO2** series UPS systems feature on-line double conversion technology, currently the most advanced for the protection of critical systems as it provides a fully stabilised and filtered sinusoidal supply voltage. The systems come in a tower format and are available in power ratings of 4, 5, 6, 8, 10, 15 and 20 kVA.

The SALICRU **SLC TWIN PRO2**'s output voltage is always single-phase, featuring a single-phase input of 4 to 20 kVA and a three-phase input of 8 to 20 kVA. All devices with single-phase input provide a unitary output power factor [(1)], the most optimum for systems and environments with high energy needs. Adaptability is another important feature thanks to the numerous operating modes available: On-line, Batteries, Eco-mode, Bypass, Frequency converter and Parallel redundant.

The possibilities of control and monitoring are varied: on the one hand, an LCD display + keypad for local operation of the device, and, on the other, various communication options (USB HID and RS-232 interfaces, and slot for SNMP, RS-485 and AS-400 cards) that enable the UPS to be integrated into standard or virtualised platforms for management, incident notification and remote maintenance.

(1) Except 15 and 20 kVA I / I models

## Features

· On-line double conversion and DSP control technology.
· Output power factor PF=1.[(1)]
· Compact tower format for space saving.
· Active power factor corrector for all input phases.
· Multiple operating modes for better adaptability.
· Equipped for parallel operation as standard, up to 3 devices.
· USB and RS-232 interface for all models as standard.
· Monitoring software for Windows, Linux, Unix and Mac (downloadable).
· Intelligent slot for SNMP/RS-485/optocoupler cards.
· Eco-mode operation for increased efficiency.
· Backup extensions available for all power ratings.
· Frequency conversion function.
· EPO – emergency power off.
· Manual and/or automatic programmable battery test.
· SLC Greenergy solution.

(1) PF=0.9 for devices with (mono-phase input 15 and 20 kVA I/I, three-phase input SLC TWIN/3 PRO2 models)

SLC TWIN PRO2

## Applications: Maximum continuity protection for sensitive and critical systems

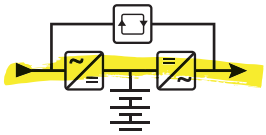
SALICRU's **SLC TWIN PRO2** series is the best option for providing a secure power supply to ERP systems, Business Intelligence, CRM solutions, intranets/extranets and corporate networks in the event of a wide range of possible disturbances (micro power outages, voltage fluctuations, frequency variations, harmonics, transients, etc.), which can cause irreparable damage or incur high costs in all of these critical systems.

# SLC TWIN PRO2

## On-line double conversion UPS from 4 to 20 kVA

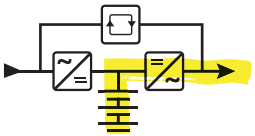
## OPERATING MODES

### On-line double-conversion



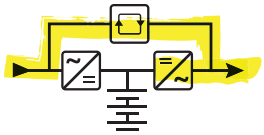
Double voltage conversion (AC/DC + DC/AC), providing the best degree of safety to loads.

### Batteries



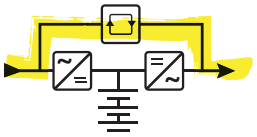
In the event of power failure, the loads continue to be powered by means of batteries.

### Eco-mode



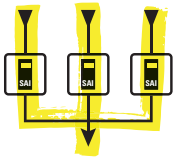
Increased efficiency up to 99%, with immediate availability of full power.

### Bypass



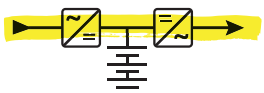
In the event of any eventuality (incident, overload, etc.), the loads continue to be powered by the input voltage.

### Parallel redundant



Increased safety (N+1) or capacity, with configurations of up to 3 devices.

### Frequency converter



Adaptation of the output frequency to the needs of the load (50/60 Hz or 60/50 Hz).

## TECHNICAL SPECIFICATIONS

| MODEL | | | SLC TWIN PRO2 4 - 10 kVA | SLC TWIN PRO2 15 - 20 kVA | SLC TWIN/3 PRO2 8-20 kVA |
|---|---|---|---|---|---|
| TECHNOLOGY | | | On-line, double conversion, PFC with double DC bus | | |
| FORMAT | | | Tower | | |
| INPUT | Rated voltage | | 208/220/230/240 V (1) | 208/220/230/240 V (1) | 3x380/400/415 V (3P+N) |
| | Voltage range | | 110 ÷ 276 V (2) | 110 ÷ 276 V (2) | 3 x 190 ÷ 478+N (2) |
| | Frequency | | 50 / 60 Hz | | |
| | Frequency range | | ±10% | | |
| | Power factor | | ≥0.99 | | |
| | Total harmonic distortion (THDi) | | <4% | <5% | <5% |
| OUTPUT | Power factor | | 1 | 0.9 | 0.9 |
| | Rated voltage | | 208 / 220 / 230 / 240 V (1) | | |
| | Voltage accuracy | | ±1% | | |
| | Synchronisation | with mains | ±4 Hz | | |
| | | without mains | ±0.1 Hz | | |
| | Performance (normal mode) | | 93% ÷ 94% | 88% ÷ 90% | 88% ÷ 90% |
| | Total harmonic distortion (THDv) (according to EN 62040-3) | | ≤1% linear load; ≤4% non-linear load | ≤2% linear load; ≤5% non-linear load | ≤2% linear load; ≤5% non-linear load |
| | Permissible overloads (normal mode) | | Up to 110% for 10 min; 130% for 1 min | | |
| | Crest factor | | 3 to 1 | | |
| | Parallel | | Yes, up to 3 units (3) | | |
| | Programmable priority outputs | | No | Yes | Yes |
| BYPASS | Type | | Hybrid | | |
| | Transfer time | | Nil | | |
| MANUAL BYPASS | | | Yes | | |
| BATTERY | Battery type | | Pb-Ca sealed, AGM, maintenance-free | | |
| | Protection | | Against power surges, undervoltages and alternating current components | | |
| CHARGER | Charge type | | I/U (constant current/constant voltage) | | |
| | Recharge time | | 7 ÷ 9 hours to 90% | 9 hours to 90% | 9 hours to 90% |
| | Temperature voltage compensation | | Yes | | |
| COMMUNICATION | Ports | | USB, RS-232 and relay | | |
| | Monitoring software | | Downloadable for Windows, Unix, Linux and Mac | | |
| | Intelligent slot | | Yes, ready for SNMP / AS400 / RS485-Modbus | | |
| OTHER FUNCTIONS | Eco-mode | | Yes | | |
| | Frequency converter | | Yes (4) | Yes | Yes |
| | Cold start | | Yes | | |
| GENERAL | Operating temperature | | 0°C ÷ 40°C | | |
| | Relative humidity | | Up to 95%, non-condensing | | |
| | Operating altitude | | 2,400 masl (power degradation up to 5,000 m) | | |
| | Noise level at 1 metre | | <58 dB ÷ <60 dB | | |
| STANDARDS | Safety | | EN 62040-1; EN 60950-1 | | |
| | Electromagnetic compatibility (EMC) | | EN 62040-2 Category C3 | | |
| | Operation | | VFI in accordance with EN 62040-3 | | |
| | Quality and Environmental Management | | ISO-9001 and ISO-14001 | | |

(1) Power reduction to 90% for 208 V input
(2) With 50% load
(3) Power reduction to 90%
(4) Power reduction to 60%

Information subject to change without notice.

## RANGE

| MODEL | CODE | POWER (VA / W) | DIMENSIONS (D x W x H mm) | WEIGHT (kg) | INPUT/ OUTPUT |
|---|---|---|---|---|---|
| SLC 4000 TWIN PRO2 | 699CB000001 | 4,000 / 4,000 | 592 X 250 X 576 | 81 | I / I |
| SLC 5000 TWIN PRO2 | 699CB000002 | 5,000 / 5,000 | 592 X 250 X 576 | 82 | I / I |
| SLC 6000 TWIN PRO2 | 699CB000003 | 6,000 / 6,000 | 592 X 250 X 576 | 83 | I / I |
| SLC 8000 TWIN PRO2 | 699CB000004 | 8,000 / 8,000 | 592 X 250 X 576 | 84 | I / I |
| SLC 8000 TWIN/3 PRO2 | 699CC000001 | 8,000 / 7,200 | 592 X 250 X 576 | 84 | III / I |
| SLC 10000 TWIN PRO2 | 699CB000005 | 10,000 / 10,000 | 592 X 250 X 576 | 85 | I / I |
| SLC 10000 TWIN/3 PRO2 | 699CC000002 | 10,000 / 9,000 | 592 X 250 X 576 | 85 | III / I |
| SLC 15000 TWIN PRO2 | 699CD000001 | 15,000 / 13,500 | 815 X 250 X 826 | 164 | I / I |
| SLC 15000 TWIN/3 PRO2 | 699CC000003 | 15,000 / 13,500 | 815 X 250 X 826 | 164 | III / I |
| SLC 20000 TWIN PRO2 | 699CD000002 | 20,000 / 18,000 | 815 X 250 X 826 | 166 | I / I |
| SLC 20000 TWIN/3 PRO2 | 699CC000004 | 20,000 / 18,000 | 815 X 250 X 826 | 166 | III / I |

Dimensions and weights for devices with standard backup with 230 V input voltage or 3 x 400 V, 230 V output voltage.

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