

ИБП SLC TWIN PRO2

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SLC TWIN PRO2

On-line double-conversion UPS 700 VA to 3000 VA

SLC TWIN PRO2: Advanced on-line protection for sensitive and critical loads

Salicru's **SLC TWIN PRO2** series is a UPS range in a tower format equipped with on-line double-conversion technology and the latest features to make it an advanced protection system for sensitive and critical loads. High output power factor (PF=0.9) to ensure availability to all types of loads.

Full control through status information via LCD display and keypad. And extensive monitoring and communication options via the built-in USB HID interface, an intelligent slot for SNMP cards or relays and a wide range of software packages available – free monitoring version downloadable for Windows, Linux, Unix or Mac and packages available for multi servers or virtualised systems. For facilities that require more back-up time, there is a possibility of backup extensions using UPSs with extra charger and additional battery modules. Also notable is the possibility of Eco-mode operation to improve the efficiency of the device, EPO (emergency power off) functions, operation as a frequency converter and built-in battery test.

Salicru's **SLC TWIN PRO2** range is available in power ratings of 700, 1000, 1500, 2000 and 3000 VA.



Applications: High-performance features for single-phase environments of up to 3 kVA

Power supply failures in IT systems can cause losses as a result of downtime and the time taken to restore the system to normal operation, and damage to network hardware. Many other disturbances (micro power outages, voltage fluctuations, frequency variations, harmonics, transients, etc.) can also cause IT environments to malfunction.



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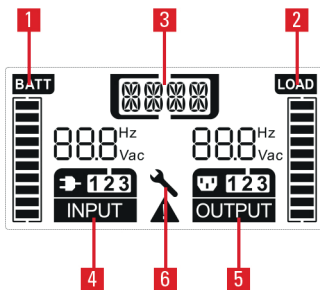
Performances

- On-line double-conversion technology.
- Output power factor PF=0.9.
- Control panel with LCD screen and keypad.
- Tower format.
- Backup extensions available for all power ratings.
- UPS models with extra charger for backup extensions.
- USB HID interface for all models as standard.
- Downloadable monitoring software for Windows, Linux, Unix and Mac.
- Intelligent slot for SNMP/relays.
- Eco-mode operation.
- Automatic frequency detector.
- Frequency conversion function.
- EPO – emergency power off.
- Schuko or IEC sockets available.
- Manual and/or automatic programmable battery test.
- Smart battery charger to shorten average recharging times.
- Battery recharging with device turned off.
- SLC Greenenergy solution.



Display

1. Level of battery available.
2. Level of load connected.
3. Operation/alarm/fault status.
4. Input voltage and frequency.
5. Output voltage and frequency.
6. Settings mode.



Communications

- **USBHID UPS:** Enables control, parameter configuration and computer shutdown/ hibernation via the USB port. Available with Windows, Linux for Mac.
- UPS monitoring and management software for closing files/applications in Windows, Linux, Unix and Mac environments. Free and downloadable
- Intelligent slot for connecting SNMP or optocoupler cards.

Salicru warranty

- 2-year warranty.
- Batteries covered by the warranty.
- Telephone technical support.



Range

MODEL SCHUKO	CODE	POWER (VA / W)	NO. OF SOCKETS	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)
SLC-700-TWIN PRO2	699CA000001	700 / 630	3	356 × 144 × 228	9.2
SLC-1000-TWIN PRO2	699CA000003	1000 / 900	3	356 × 144 × 228	10.2
SLC-1500-TWIN PRO2	699CA000005	1500 / 1350	4	399 × 190 × 327	17.4
SLC-2000-TWIN PRO2	699CA000007	2000 / 1800	4	399 × 190 × 327	18.4
SLC-3000-TWIN PRO2	699CA000009	3000 / 2700	4	399 × 190 × 327	22.7

MODEL IEC	CODE	POWER (VA / W)	NO. OF SOCKETS	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)
SLC-700-TWIN PRO2 IEC	699CA000011	700 / 630	4xC13	356 × 144 × 228	9.2
SLC-1000-TWIN PRO2 IEC	699CA000013	1000 / 900	4xC13	356 × 144 × 228	10.2
SLC-1500-TWIN PRO2 IEC	699CA000015	1500 / 1350	4xC13	399 × 190 × 327	17.4
SLC-2000-TWIN PRO2 IEC	699CA000017	2000 / 1800	4xC13	399 × 190 × 327	18.4
SLC-3000-TWIN PRO2 IEC	699CA000019	3000 / 2700	4xC13 + 1xC19	399 × 190 × 327	22.7

Dimensions and weights for devices with standard backup

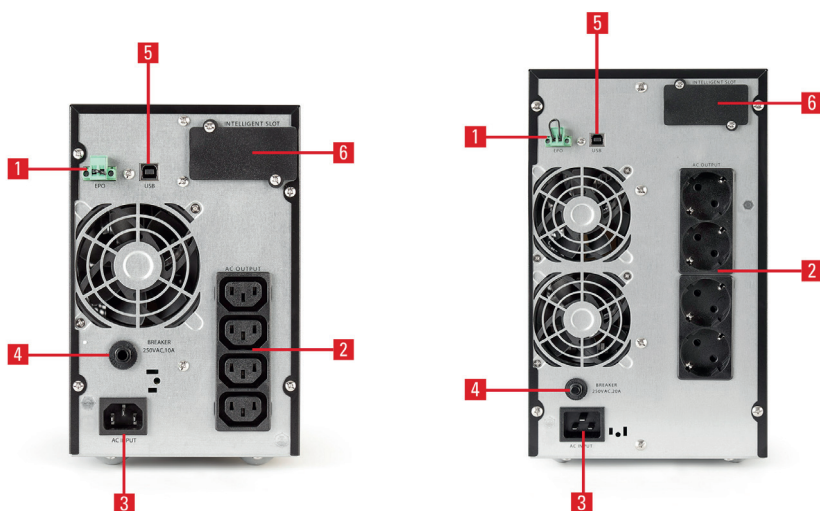
Dimensions



SLC 700/1000 TWIN PRO2 (IEC)

SLC 1500-3000 TWIN PRO2 (IEC)

Connections



1. Emergency stop (EPO).
2. Socket AC output (SCHUKO / IEC).
3. Socket AC input.
4. Thermal rearmable input.
5. USB HiD interface.
6. Intelligent slot for SNMP/relays.

Technical specifications

MODEL		SLC TWIN PRO2
TECHNOLOGY		On-line double-conversion
FORMAT		Tower
INPUT	Rated voltage	220 / 230 / 240 V
	Voltage range 100% load	176 ÷ 300 V
	Voltage range 40% load	100 ÷ 300 V
	Rated frequency	50 / 60 Hz
	Frequency range	±10%
	Power factor	≥0.99
	Protection	Resettable circuit breaker
OUTPUT	Power factor	0.9
	Waveform	Pure sine wave
	Rated voltage	220 / 230 / 240 V
	Voltage accuracy	±1%
	Total harmonic distortion (THDv)	<2%
	Synchronised frequency	±10%
	Free running frequency	±0.05 Hz
	Synchronous speed	1 Hz/s
	On-line performance	>89%÷92%
	Eco-mode performance	>98%
	Admissible overloads in battery mode	105% constant / 130% for 10 s / 150% for 1 s
	Admissible overloads in bypass mode	130% constant / 180% for 60 s
	Admissible overloads in-line mode	105% constant / 130% for 60 s / 150% for 10 s / >150% for 300ms
	Available socket formats	Schuko (DIN) o IEC
BATTERY	Battery type	Pb-Ca sealed, AGM, maintenance-free
	Charge type	I/U (constant current/constant voltage)
	Recharge time	4 hours to 90%
	Battery test	Manual and/or automatic programmable
COMMUNICATION	Ports	USB HID
	Intelligent slot	Slot for SNMP/relays
	Monitoring software	For Windows, Linux and Mac
OPERATING MODES	On-line double-conversion	Yes
	Eco-mode	Yes
	Frequency converter (CVCF)	Yes ⁽¹⁾
GENERAL	Operating temperature	0° C ÷ 40° C
	Relative humidity	Up to 95%, non-condensing
	Maxium operating altitude	2,400 masl (power degradation up to 5,000 m)
	Acoustic noise at 1 metre	≤49 dB (100% load) / ≤41 dB (60% load)
STANDARDS	Safety	EN-IEC 62040-1
	Electromagnetic compatibility (EMC)	EN 62040-2
	Operation	VFI (EN-62040-3)
	Quality and environmental management	ISO 9001 & ISO 14001

(1) up to 60% of the load

SLC TWIN PRO2

On-line double-conversion UPS 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



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.



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Performances

- 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.

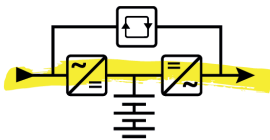


(1) $PF=0.9$ for devices with mono-phase input 15 and 20 kVA I/I, three-phase input SLC TWIN/3 PRO2 models

Operating modes

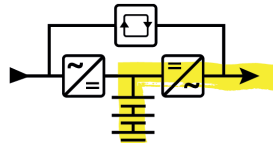
On-line double-conversion

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.



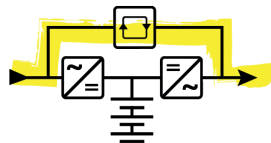
Eco-mode

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



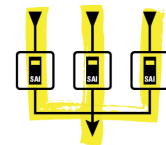
Bypass

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



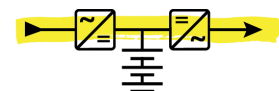
Parallel redundant

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).

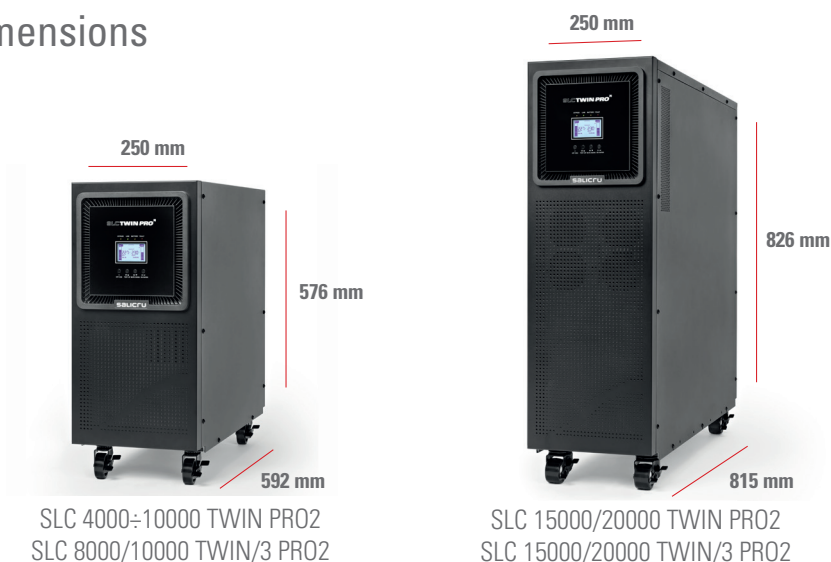


Range

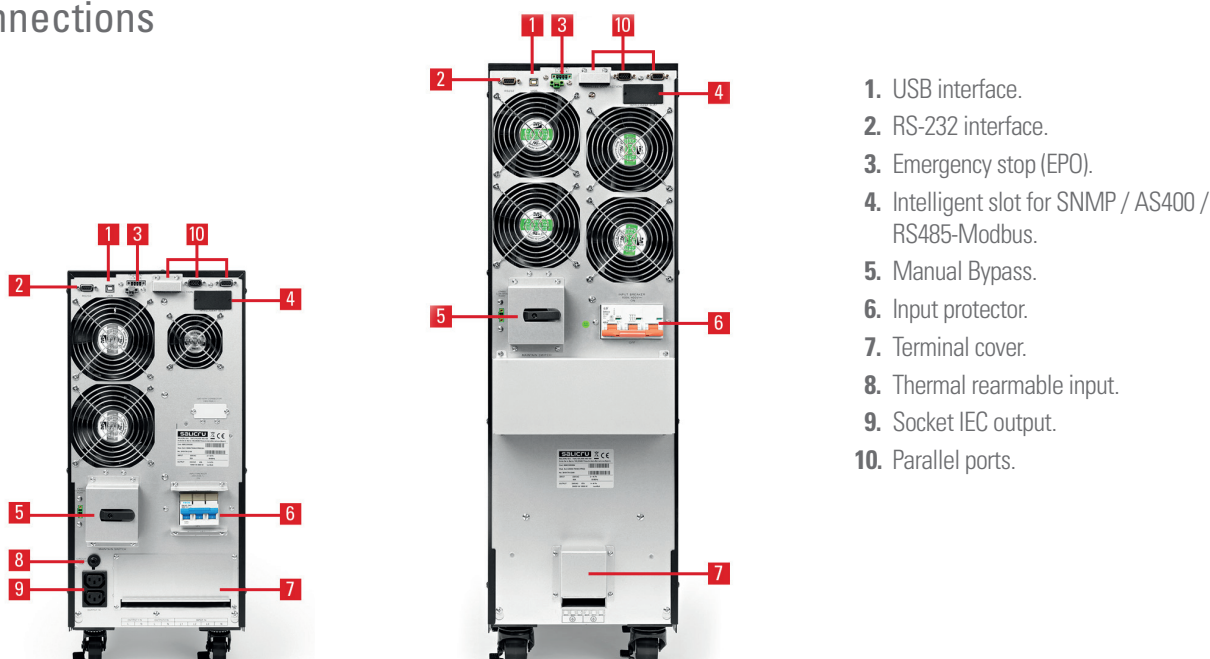
MODEL	CODE	POWER (VA / W)	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)	INPUT / OUTPUT
SLC-4000-TWIN PRO2	699CB000001	4000 / 4000	592 × 250 × 576	81	I / I
SLC-5000-TWIN PRO2	699CB000002	5000 / 5000	592 × 250 × 576	82	I / I
SLC-6000-TWIN PRO2	699CB000003	6000 / 6000	592 × 250 × 576	83	I / I
SLC-8000-TWIN PRO2	699CB000004	8000 / 8000	592 × 250 × 576	84	I / I
SLC-8000-TWIN/3 PRO2	699CC000001	8000 / 7200	592 × 250 × 576	84	III / I
SLC-10000-TWIN PRO2	699CB000005	10000 / 10000	592 × 250 × 576	85	I / I
SLC-10000-TWIN/3 PRO2	699CC000002	10000 / 9000	592 × 250 × 576	85	III / I
SLC-15000-TWIN PRO2	699CD000001	15000 / 13500	815 × 250 × 826	164	I / I
SLC-15000-TWIN/3 PRO2	699CC000003	15000 / 13500	815 × 250 × 826	164	III / I
SLC-20000-TWIN PRO2	699CD000002	20000 / 18000	815 × 250 × 826	166	I / I
SLC-20000-TWIN/3 PRO2	699CC000004	20000 / 18000	815 × 250 × 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.

Dimensions



Connections



Technical specifications

MODEL		SLC TWIN PRO2 4-10 kVA	SLC TWIN/3 PRO2 8-20 kVA	SLC TWIN PRO2 15-20 kVA
TECHNOLOGY		On-line, double conversion, PFC with double DC bus		
FORMAT		Tower		
INPUT	Rated voltage	208 / 220 / 230 / 240 V ⁽¹⁾	3 × 380 / 400 / 415 V (3F+N)	208 / 220 / 230 / 240 V ⁽¹⁾
	Voltage range	110 ÷ 276 V ⁽²⁾	3 × 190 ÷ 478+N ⁽²⁾	110 ÷ 276 V ⁽²⁾
	Rated frequency	50 / 60 Hz		
	Frequency range	±10%		
	Total harmonic distortion (THDi)	<4%	<5%	
	Power factor	≥0.99		
OUTPUT	Power factor	1	0.9	
	Rated voltage	208 / 220 / 230 / 240 V ⁽¹⁾		
	Voltage accuracy	±1%		
	Total harmonic distortion (THDv)	≤1% linear load; ≤4% non-linear load	≤2% linear load; ≤5% non-linear load	
	Synchronised frequency	±4 Hz		
	Free running frequency	±0.1 Hz	±0.05 Hz	
	Total performance in On-line mode	93% ÷ 94%	88% ÷ 90%	
	Admissible overloads	Up to 110% for 10 min; 130% for 1 min		
	Crest factor	3 a 1		
	Parallel	Yes, up to 3 units ⁽³⁾		
BYPASS	Type	Hybrid		
	Transfer time	Nil		
MANUAL BYPASS	Type	No breaks		
BATTERY	Protection	Against power surges, undervoltages and alternating current components		
	Battery type	Pb-Ca sealed, AGM, maintenance-free		
	Charge type	I/U (constant current/constant voltage)		
	Recharge time	7 ÷ 9 hours to 90%	9 hours to 90%	
CHARGER	Temperature voltage compensation	Yes		
COMMUNICATION	Ports	USB, RS-232 and relay		
	Intelligent slot	Yes, ready for SNMP / AS400 / RS485-Modbus		
	Monitoring software	Downloadable for Windows, Unix, Linux and Mac		
OTHER FUNCTIONS	Cold start (start-up from batteries)	Yes		
OPERATING MODES	Eco-mode	Yes		
	Frequency converter (CVCF)	Yes ⁽⁴⁾	Yes	Yes ⁽⁵⁾
GENERAL	Operating temperature	0° C ÷ 40° C		
	Relative humidity	Up to 95%, non-condensing		
	Maximum operating altitude	2,400 masl (power degradation up to 5,000 m)		
	Acoustic noise at 1 metre	<58 dB ÷ <60 dB		
STANDARDS	Safety	EN-IEC 62040-1		
	Electromagnetic compatibility (EMC)	EN 62040-2 (C3)		
	Operation	VFI (EN-62040-3)		
	Quality and environmental management	ISO-9001 & ISO-14001		

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