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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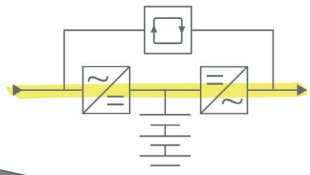
Performances

· 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.

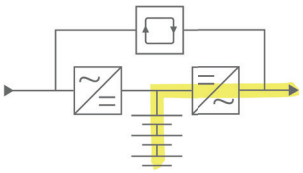
(1) PF=0.9 for devices with mono-phase input 15 and 20 kVA I/I, three-phase input SLC TWIN/3 PRO2 models

Operating modes

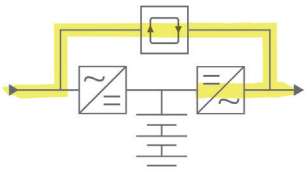
On-line double-conversion
Double voltage conversion (AC/DC + DC/AC), providing the best degree of safety to loads.



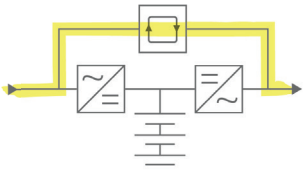
Batteries
In the event of power failure, the loads continue to be powered by means of batteries.



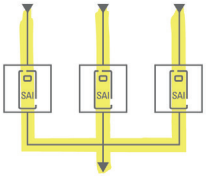
Eco-mode
Increased efficiency up to 99%, with immediate availability of full power.



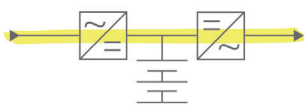
Bypass
In the event of any eventuality (incident, overload, etc.), the loads continue to be powered by the input voltage.



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

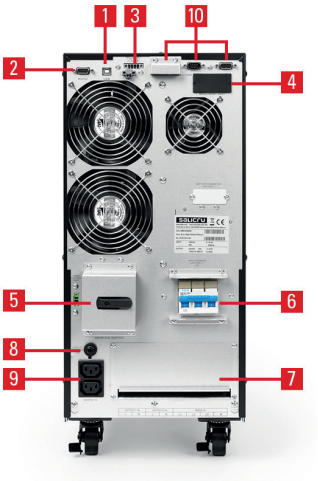
Dimensions and weights for devices with standard backup with 230 V input voltage or 3 x 400 V, 230 V output voltage.

Dimensions

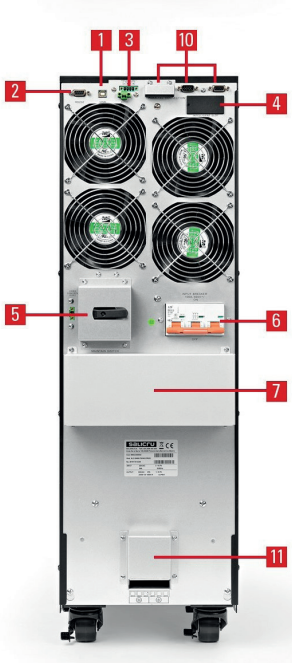
SLC 4000÷10000 TWIN PRO2
SLC 8000/10000 TWIN/3 PRO2

SLC 15000/20000 TWIN PRO2
SLC 15000/20000 TWIN/3 PRO2

Connections



SLC 4000÷10000 TWIN PRO2
SLC 8000/10000 TWIN/3 PRO2



SLC 15000/20000 TWIN PRO2
SLC 15000/20000 TWIN/3 PRO2

1. USB interface.
2. RS-232 interface.
3. Emergency stop (EPO).
4. Intelligent slot for SNMP / AS400 / RS485-Modbus.
5. Manual Bypass.
6. Input protector.
7. Terminal cover.
8. Thermal rearmable input.
9. Socket IEC output.
10. Parallel ports.
11. Earth connection.

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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	0º C ÷ 40º 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	<58 dB ÷ <60 dB		
STANDARDS	Safety	EN-IEC 62040-1		
	Electromagnetic compatibility (EMC)	EN 62040-2 (C3)		
	Operation	VFI-SS-11 (EN-62040-3)		
	Quality and environmental management	ISO-9001 & 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%
(5) Power reduction to 40%

@salicru_en www.linkedin.com/company/salicruen/

+34 938 482 400 WWW.SALICRU.COM
AVDA. DE LA SERRA 100 · 08460 PALAUTORDERA · SPAIN · salicru@salicru.com