

SLC TWIN PRO Double conversion On-line UPS 700 VA - 20 kVA

SLC TWIN PRO: The solution for maximum On-line protection

Covering a wide range of powers from 700 VA to 20 kVA, Salicru's **SLC TWIN PRO** series gives maximum reliability in electrical protection for businesses and industry. With its double conversion On-line technology, the most reliable technology on the market, the **SLC TWIN PRO** series is a single phase output UPS (with single phase input from 700 VA to 20 kVA and three-phase input from 8 kVA to 20 kVA), with an output power factor of 0.9 ⁽¹⁾, broad communication options via interface + monitoring/automatic file closing shutdown software, batteries for standard autonomy integrated in the cabinet itself, option of extending back-up for processes requiring greater available autonomy and options of parallel/redundant operation up to 4 units ⁽¹⁾ for installations growing in qualitative and quantitative demands.

Added performances include the standard static and maintenance bypasses ⁽¹⁾, the low input current distortion (THDi) under 5%, small footprint in both standard and extended autonomies, full information obtained from the LCD/graphic display or the possibility of working in frequency converter mode.

Performances

- Double conversion On-line UPS.
- Output power factor = 0.9 (up to 3 kVA = 0.8).
- Input current Total Harmonic Distortion (THDi) <5%.
- Control panel with LCD display or graphic display and keyboard.
- Tower format.
- Option of parallel up to 4 units. ⁽¹⁾
- Eco-mode operation.
- Series communications (RS-232) ⁽¹⁾ and USB interfaces.
- Monitoring software for Windows, Unix, Linux and Mac.
- Smart slot for SNMP/relays.
- Extended autonomy available.
- Automatic frequency detector.
- Frequency converter function.
- EPO – Emergency Power Off.
- Maintenance bypass. ⁽¹⁾
- Cold Start function for starting from batteries.
- Equipments conversion easy and fast from input three phase to single phase.
- SLC Greenergy solution.

⁽¹⁾ From 4 kVA



SLC TWIN PRO

Applications: Security and flexibility for single phase systems

The largest information losses from computer and telecommunications systems in more than 45% of cases are caused by disturbances (blackouts, micro cuts, voltage variations, frequency variations,...) in the mains supply. To the information losses we must add the losses caused by the user's inactivity during the recovery time and the expense of restoring damaged equipment and systems.

Salicru's **SLC TWIN PRO** series UPS give the best protection for ERP systems, CRM platforms, Business Intelligence (BI), intranets/extranets,...

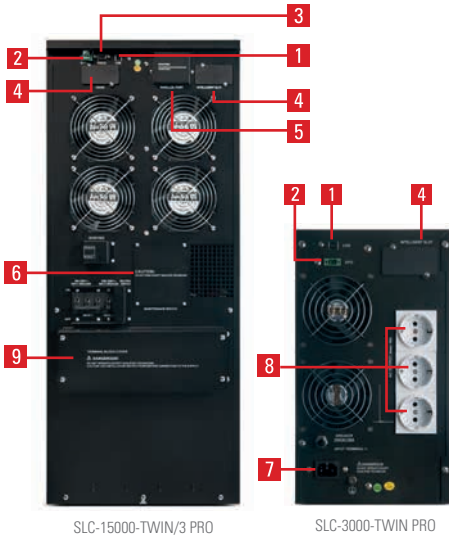


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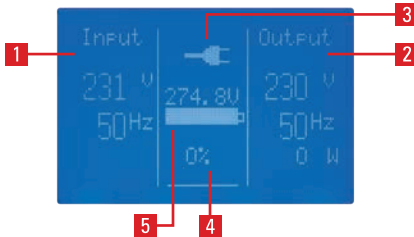
Double conversion On-line UPS 700 VA - 20 kVA

Description



1. USB port.
2. Emergency Power Off (EPO).
3. RS-232 interface.
4. SNMP/AS-400 smart slot.
5. Parallel port.
6. Manual maintenance bypass.
7. AC input.
8. Schuko type AC outputs.
9. AC input/output connection terminals.

Display



1. Input voltage x phase and frequency.
2. Output voltage and frequency.
3. UPS status/user adjustments.
4. Connected load level.
5. Battery status.

Adaptability

- Extended autonomies.
- Single phase/3-phase input.
- Parallel-redundant system >3 kVA.
- Frequency converter.
- Eco-mode operation.

Services

- Pre-sale and after sale advisory service.
- Technical support by phone.
- Preventive/corrective interventions.
- Maintenance contracts.
- Multiple formulae for maintenance and telemaintenance (SICRES).



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TECHNICAL SPECIFICATIONS

MODEL		TWIN PRO 0,7 ÷ 3 kVA	TWIN PRO 4 ÷ 10 kVA	TWIN/3 PRO 8 ÷ 20 kVA ⁽¹⁾	
FORMAT		Tower			
TECHNOLOGY		On-line, double conversion, PFC with double DC bus			
INPUT	Nominal voltage	200/208/220/230/240 V ⁽²⁾	208/220/230/240 V ⁽²⁾	3x300/400/415V(3Ph+N)	
	Voltage range	110 ÷ 276 V ⁽³⁾		3 x 190÷478+N ⁽³⁾	
	Frequency	50 / 60 Hz			
	Frequency range	±10%			
	Power factor	≥0.99			
	Total Harmonic Distortion (THDi)	<5%			
OUTPUT	Power factor	0.8	0.9		
	Nominal voltage	200 / 208 / 220 / 230 / 240 V ⁽²⁾			
	Voltage accuracy	±2%	±1%		
	Maximum slew rate	1 Hz/s			
	Frequency synchronisation	±10%			
		mains present	±0.2 Hz	±0.1 Hz	±0.05 Hz
		free running			
	Efficiency	>88%	92%	>93%	
	Total Harmonic Distortion (THDv) ⁽³⁾	≤3% linear load; ≤5% non-linear load (according to EN 62040-3)	≤2% linear load; ≤5% non-linear load (according to EN 62040-3)		
	Admissible overload (normal mode)	Up to 110% during 1 min; 125% during 30 s	Up to 125% during 2 min; 150% during 30 s	Up to 110% during 5 min; 130% during 1 min	
Crest factor	3 to 1				
Parallel	No	Yes, up to 4 units			
BYPASS	Nominal voltage	200 / 208 / 220 / 230 / 240 V ⁽²⁾			
	Frequency range	50 / 60 Hz ±10 Hz			
MANUAL BYPASS		No	Yes ('make before break' type)		
BATTERY	Type	Sealed lead acid, AGM and free maintenance			
	Protection	Against overvoltages, under voltages and alternating current component			
CHARGER	Charge type	I/U (Constant current/Constant voltage)			
	Recharging time	5 ÷ 8 hours at 90%			
	Temperature compensation	Yes			
COMMUNICATION	Ports	USB	RS-232, USB and relays ⁽⁴⁾		
	Monitoring software	For Windows, Unix, Linux and Mac.			
FUNCTION MODES	Eco-mode	Yes, until 98% efficiency			
	Frequency converter	Yes ⁽⁵⁾			
	Starting from batteries (Cold Start)	Yes			
GENERALS	Operating temperature	0° C ÷ +45° C			
	Relative humidity	Up to 95%, non-condensing			
	Operating altitude	1000 m.a.s.l. (with de-rating up to 5000 m.a.s.l.)			
	Acoustic noise @ 1 metre	<50 dB ⁽⁶⁾	<55 dB		
STANDARDS	Safety	EN-62040-1; EN-60950-1; EN-60529			
	Electromagnetic compatibility (EMC)	EN-62040-2			
	Operating	VFI according to EN-62040-3			
	Quality and environmental	ISO 9001 and ISO 14001			

(1) Possible monophase input to equipment 12/15/20kVA
200 V in three-single

(2) Power reduction for 200 V and 208 V versions in single-single units and only for 200 V in three-single
(3) With load at 50%

(5) Power reduction of 40% in single-single models

(6) 8kVA & 10kVA < 55dB

Data may change without previous notice.

RANGE

MODEL	POWER (VA / W)	DIMENSIONS (D x W x H mm.)	WEIGHT (Kg)	INPUT/ OUTPUT
SLC-700-TWIN PRO	700 / 560	400 x 145 x 220	13	I / I
SLC-1000-TWIN PRO	1,000 / 800	400 x 145 x 220	14	I / I
SLC-1500-TWIN PRO	1,500 / 1,200	460 x 192 x 347	30	I / I
SLC-2000-TWIN PRO	2,000 / 1,600	460 x 192 x 347	31	I / I
SLC-3000-TWIN PRO	3,000 / 2,400	460 x 192 x 347	32	I / I
SLC-4000-TWIN PRO	4,000 / 3,600	560 x 260 x 708	84	I / I
SLC-5000-TWIN PRO	5,000 / 4,500	560 x 260 x 708	85	I / I
SLC-6000-TWIN PRO	6,000 / 5,400	560 x 260 x 708	86	I / I
SLC-8000-TWIN PRO	8,000 / 7,200	560 x 260 x 708	92	I / I
SLC-8000-TWIN/3 PRO	8,000 / 7,200	560 x 260 x 708	92	III / I
SLC-10000-TWIN PRO	10,000 / 9,000	560 x 260 x 708	93	I / I
SLC-10000-TWIN/3 PRO	10,000 / 9,000	560 x 260 x 708	93	III / I
SLC-12000-TWIN/3 PRO	12,000 / 10,800	650 x 350 x 890	181	III / I - I / I
SLC-15000-TWIN/3 PRO	15,000 / 13,500	650 x 350 x 890	182	III / I - I / I
SLC-20000-TWIN/3 PRO	20,000 / 18,000	650 x 350 x 890	183	III / I - I / I

Dimensions and weights for equipments with standard back up with input voltage 230 V or 3x400 V, output voltage of 230 V.