SLC TWIN RT2

On-line double-conversion tower/rack UPS from 700 VA to 10,000 VA with PF=1

SLC TWIN RT2: High-performance On-line security for priority systems

Salicru's **SLC TWIN RT2** UPS range is a highly advanced continuity solution for the electrical protection of critical systems. It combines the most reliable double-conversion technology (AC/DC-DC/AC) on the market and boasts a unity output power factor (VA=W) to enable it to power systems with high energy requirements, while offering high operating efficiency.

With a range of power ratings from 700 VA(W) to 10,000 VA(W), it comes in a 2U (up to 3 kVA) or 4U rack format, convertible to tower format, with a swivel mount LCD display, according to the needs of the facility. Also available are solutions with an extra charger and additional battery modules for applications that require greater backup.

In terms of communications, it features an RS-232/USB interface (compatible with HID protocol for devices up to 3 kVA) and a smart slot that can optionally hold an SNMP card, MODBUS or potential free contacts; also available are software packages for local or virtual monitoring and management of protected devices. Other outstanding features include: 50/60 or 60/50 Hz frequency converter, emergency stop (EPO), programmable outputs for critical/non-critical loads (up to 3 kVA) and system operation in parallel (up to 3 units for devices from 4 kVA).

Features

· On-line double-conversion technology.
· Output power factor PF=1.[1]
· Convertible tower/rack format.
· Control panel with swivel mount LCD display and keypad.
· Includes pedestal (pedestal mount) and lugs (rack mount).
· Backup extensions available for all power ratings.
· UPS models with extra charger for backup extensions.
· RS-232 and USB-HID communication interfaces.[2]
· Downloadable monitoring software for Windows, Linux and Mac.
· Smart slot for SNMP/potential-free contacts/MODBUS.
· ADSL/fax/modem line protection.[2]
· Eco-mode operation.
· Programmable outputs for critical/non-critical loads.[2]
· Parallelable up to 3 units.[3]
· PDU strip for distribution of output loads.[3]
· Frequency conversion function.
· SLC Greenergy solution.

SLC TWIN RT2

(1) Except for backup extensions from 4 kVA.
(2) For devices of up to 3 kVA.
(3) For devices from 4 kVA.

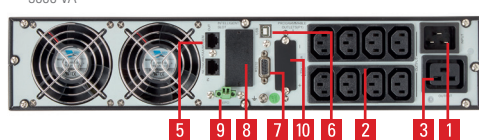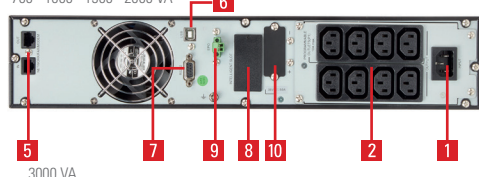## Applications: Continuous protection for critical systems

Salicru's **SLC TWIN RT2** series offers, in a compact format, all of the necessary features for the protection of applications that require a high level of security in the event of any type of electrical disturbance, such as IT servers, voice and data networks, CAD/CAM, document management, unified communications (UC) and video streaming.

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Connections

700 - 1000 - 1500 - 2000 VA

3000 VA

4000 - 5000 - 6000 - 8000 - 10000 VA

1. Plug (IEC 14 for 700, 1000 and 1500 VA models; IEC 20 for 2000 and 3000 VA models).
2. Sockets (8 x IEC 13), programmable critical (x4) / non-critical (x4).
3. Socket IEC C19 (only for 3000 VA model).
4. Input/output terminals.
5. ADSL/fax/modem transient protector.
6. USB interface.
7. RS-232 interface.
8. Smart slot for SNMP/potential-free contacts/ MODBUS.
9. Emergency stop (EPO).
10. Connection for battery module (only in models with extra charger).
11. Input circuit breaker.
12. Parallel port.
13. Current distribution port.
14. Digital input/output.

Maximum performance in Eco mode:

With performance of up to 99%, a significant energy saving can be achieved without reducing reliability and security in the protection of critical loads.

Higher power density:

With a unity output power factor, maximum power in watts (W) is delivered, thereby optimising the always limited space in racks or server rooms.

Easy to install / easy to operate:

Convertible tower/rack thanks to the accessories included (rack handles, tower pedestal), swivel mount display. Intuitive LCD for operation and configuration, with optical and audible warning devices. Easy segmentation of sockets between critical/non-critical loads.

TECHNICAL SPECIFICATIONS

MODEL		SLC TWIN RT2 0.7-3 kVA	SLC TWIN RT2 4-10 kVA
TECHNOLOGY		On-line double-conversion	
FORMAT		Convertible tower/rack	
INPUT	Rated voltage	200 / 208 / 220 / 230 / 240 V[1]	208 / 220 / 230 / 240 V[2]
	Voltage range	110 ÷ 300 V up to 60% load	110 ÷ 300 V up to 50% load
	Frequency	50 / 60 Hz (auto-detection)	
	Frequency range	±4 Hz	
	Total harmonic distortion (THDi)	≤5%	≤4%
OUTPUT	Power factor	1	1 [3]
	Rated voltage	200 / 208 / 220 / 230 / 240 V[1]	208 / 220 / 230 / 240 V[2]
	Voltage accuracy (battery mode)	±1%	
	Total harmonic distortion (THDv)	< 2% linear load / < 4% non-linear load	< 1% linear load / < 4% non-linear load
	Synchronisation — With mains	±3 Hz	±4 Hz
	Synchronisation — Without mains	±0.1 Hz	
	Permissible overload (normal mode)	< 130% for 5 min / < 140% for 30 s	< 110% for 10 min / < 130% for 1 min
	Programmable sockets	Yes, for critical / non-critical loads (4/4)	N/A
	Performance — Normal mode	≥ 89 ÷ 91%	≥ 93 ÷ 94%
	Performance — ECO mode	≥ 95 ÷ 97%	≥ 99%
	Parallel	No	Yes, up to 3 units [4]
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	3 hours to 95%	7 ÷ 9 hours to 90%
	Temperature voltage compensation	Yes	
COMMUNICATION	Interface	USB-HID / RS-232	USB / RS-232 / relay
	Smart slot for SNMP / potential-free contacts / MODBUS	Yes	
	Downloadable monitoring software	Yes, for Windows, Linux and Mac	
OTHER FUNC-TIONS	Cold start	Yes	Yes
	Emergency stop (EPO)	Yes	
	ADSL/fax/modem transient protector	Yes	No
	Frequency converter	Yes [5]	Yes [6]
GENERAL	Operating temperature	0ºC ÷ +40ºC	
	Relative humidity	Up to 95%, non-condensing	
	Operating altitude	2,400 masl (power degradation up to 5,000 m)	
	Noise level at 1 metre	< 50 ÷ 55 dB	< 58-60 dB
STANDARDS	Safety	EN 62040-1:2008	
	Electromagnetic compatibility (EMC)	EN 62040-2:2006(C2)	EN 62040-2:2006(C3)
	Operation	EN 62040-3:2011	
	Quality and Environmental Management	ISO 9001 and ISO 14001	

(1) 80% power reduction for 200 or 208 V devices
(2) 90% power reduction for 208 V devices
(3) Except for devices with extended backup
(4) 90% power reduction
(5) 78% power reduction
(6) 60% power reduction

Information subject to change without notice.

RANGE

MODEL	CODE	POWER (VA / W)	NO. OF SOCKETS	DIMENSIONS (D x W x H mm)	WEIGHT (Kg)
SLC 700 TWIN RT2	698CA000001	700 / 700	8 x IEC C13	410 x 438 x 88 (2U)	14.1
SLC 1000 TWIN RT2	698CA000002	1.000 / 1.000	8 x IEC C13	410 x 438 x 88 (2U)	14.1
SLC 1500 TWIN RT2	698CA000003	1.500 / 1.500	8 x IEC C13	410 x 438 x 88 (2U)	15.5
SLC 2000 TWIN RT2	698CA000004	2.000 / 2.000	8 x IEC C13	510 x 438 x 88 (2U)	19.5
SLC 3000 TWIN RT2	698CA000005	3.000 / 3.000	8 x IEC C13 + 1 x IEC C19	630 x 438 x 88 (2U)	27.5
KIT SLC 4000 TWIN RT2	698RQ000002	4.000 / 4.000	Terminals + PDU	2 x 600/688 x 438 x 88 (4U)	69
KIT SLC 5000 TWIN RT2	698RQ000003	5.000 / 5.000	Terminals + PDU	2 x 600/688 x 438 x 88 (4U)	69
KIT SLC 6000 TWIN RT2	698RQ000004	6.000 / 6.000	Terminals + PDU	2 x 600/688 x 438 x 88 (4U)	69
KIT SLC 8000 TWIN RT2	698RQ000005	8.000 / 8.000	Terminals + PDU	2 x 600/688 x 438 x 88 (4U)	74
KIT SLC 10000 TWIN RT2	698RQ000006	10.000 / 10.000	Terminals + PDU	2 x 600/688 x 438 x 88 (4U)	74

Dimensions and weights for devices with standard backup