

SLC TWIN RT3 10-20 kVA

On-line double conversion tower/rack IoT UPS from 10 kVA to 20 kVA with FP=1



SLC TWIN RT3 10-20 KVA: Advanced electrical protection with maximum efficiency and reliability

Salicru's **SLC TWIN RT3 MULTI** series offers 10–20 kVA UPSs designed to safeguard power in critical server and data environments.

Based on on line double conversion technology with DSP control, they ensure immaculate power quality. Although conceived for integration in rack cabinets, they include all accessories required for tower installation. The base units are supplied without batteries, enabling efficient protection and flexible autonomy via additional modules.

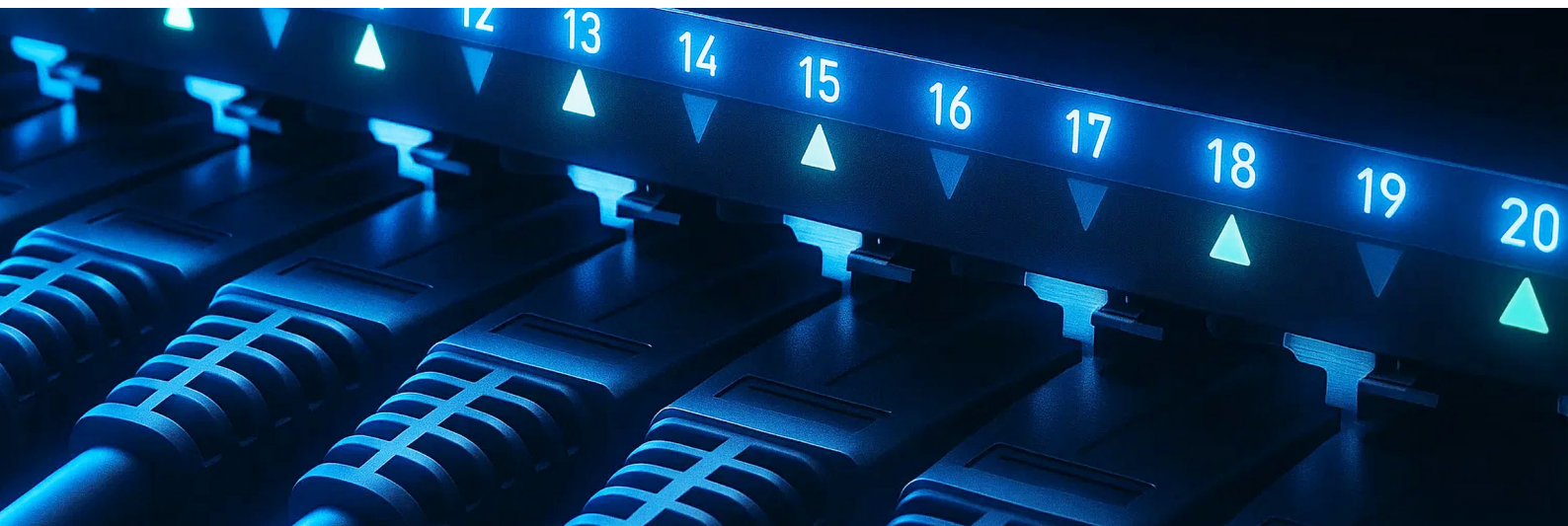
A key strength of the range is its flexible input/output configuration (3:3, 3:1 and 1:1) via busbars, providing superior versatility and greater protection by allowing two separate inputs in all options. The interactive touchscreen panel places key information at the centre of the display, overcoming the limitations of traditional LCDs.

Reliability, power density and immediacy of information have been three of the key elements in defining the **SLC TWIN RT3 MULTI** series, meeting the current demands of the most exacting users.

Applications: Essential systems for IT environments

When productivity depends on power, **SLC TWIN RT3 MULTI** is the right choice. Designed for environments where every second counts, it guarantees a stable supply with real time monitoring.

From ERP and BI platforms to CRM solutions and enterprise networks, the system protects against outages, voltage sags and disturbances, ensuring uninterrupted continuity.



**NIM
BUS**

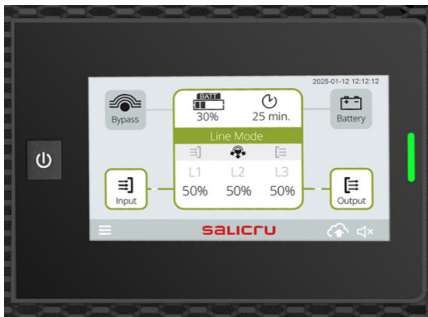
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Performances

- On line double conversion technology with DSP control.
- Output power factor PF = 1.
- Flexible input/output supply configurations (3:3, 3:1, 1:1).
- Supports dual source configuration with two independent inputs.
- Control panel with touchscreen display.
- Convertible Tower/Rack form factor.
- Parallel connection of up to 3 units (optional).
- Extended autonomy options available.
- Automatic detection of external battery module via RJ 45.
- Frequency converter function, with and without batteries.
- Battery test, manual and programmable automatic.
- 9 selectable languages.
- Native Ethernet port for NIMBUS IoT, plus USB and RS 232 interfaces as standard on all models.
- Monitoring software for Windows, Linux, Unix and Mac (downloadable).
- Intelligent slot for SNMP/RS485/MODBUS cards.
- Compatibility with inlet air filters.
- Tropicalisation included.
- Modular design with reduced MTTR and optional independent bypass input.



Rotatable multifunction touchscreen display



The **SLC TWIN RT3 MULTI** features a rotatable display for optimal visibility thanks to its adjustable orientation in both rack and tower installations.

It also includes a colour touchscreen with helpful visual animations – key elements for the advanced management of a modern UPS. The intuitive design enables immediate viewing, with numerous settings configurable directly from the screen (voltage, frequency, load, battery status and alarms).

The multifunction capability provides quick access to different configurations and control options, making operation more versatile and efficient.

Flexible input/output configuration

Using busbars, the following arrangements are available; two different inputs can be used in all of them for added protection:

- **3:3 mode:** three phase input and output – ideal for data centres and high load density systems.
- **3:1 mode:** three phase input and single phase output – suitable for applications focusing protection on critical single phase loads, reducing imbalances and simplifying installation.
- **1:1 mode:** single phase input and output – intended for environments with intermediate power and specific local back up needs, ensuring autonomy.

Eco-mode and Eco-mode +

Optimisation reaches another level with SLC TWIN RT3 MULTI, adapting to different electrical environments and critical loads while improving energy efficiency without compromising protection.

It includes Eco mode, which reduces losses under normal load conditions, and Eco mode+, a more advanced version combining maximum efficiency with continuous monitoring to ensure operational continuity even with variable loads.

These functions deliver significant energy savings while maintaining the reliability and stability of critical systems.



Options

- NIMBUS SNMP card
- NIMBUS AS400 card
- NIMBUS RS 485 MODBUS card
- Cable gland kit
- Dust filters

Range

MODEL	CODE	POWER (VA / W)	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)
SLC 10 TWIN RT3 MULTI	6B4AH000001	10000/10000	592 × 438 × 258	76,1
SLC 15 TWIN RT3 MULTI	6B4AH000002	15000/15000	592 × 438 × 387	113,0
SLC 20 TWIN RT3 MULTI	6B4AH000003	20000/20000	592 × 438 × 387	113,0

Dimensions

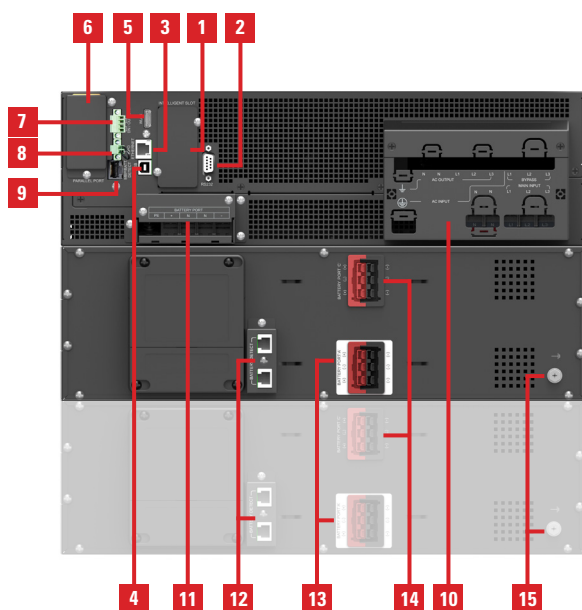


SLC 10000 TWIN RT3 MULTI



SLC 15000-20000 TWIN RT3 MULTI

Connections



SLC 10000-20000 TWIN RT3 MULTI

1. Intelligent SNMP slot
2. RS 232 interface
3. Ethernet port (RJ 45, for the IoT function)
4. USB interface
5. Wireless (HDMI, for the IoT function)
6. Parallel port (factory option; default: no)
7. Dry contacts (DRY in/out)
8. EPO (Emergency Power Off)
9. RJ 45 (for EBM auto detection)
10. Input/output terminals
11. External battery terminals
12. RJ45 port for battery detection
13. Connector 'A' (to the EBM)
14. Connector 'C' (to the UPS)
15. Earth connection

Technical specifications

MODEL		SLC 10 TWIN RT3 MULTI	SLC 15 TWIN RT3 MULTI	SLC 20 TWIN RT3 MULTI
TECHNOLOGY		On-line double-conversion		
FORMAT		Convertible tower/rack with rotating display		
CONFIGURATION		3:3 / 3:1 / 1:1		
INPUT	Rated voltage	220/230/240 V or 3 x 380/400/415 V + N		
	Voltage range	110 ÷ 300 V ⁽¹⁾		
	Rated frequency	50/60 Hz (auto-detection)		
	Frequency range	40 ÷ 70 Hz		
	Total harmonic distortion (THDi)	<3 % linear load ; <5 % non-linear load		
	Power factor	>0,99		
OUTPUT	Power factor	1		
	Rated voltage	220/230/240 V or 3 x 380/400/415 V + N		
	Voltage accuracy	±1%		
	Total harmonic distortion (THDv)	<1 % linear load; <5 % non-linear load		
	Synchronised frequency	50 ±5 Hz/60 ±6 Hz		
	Eco-mode performance	98 %	98,8 %	99%
	Total performance in On-line mode	95 %	96 %	
	Admissible overloads in battery mode	105 ÷ 125 % for 1 min / 125 ÷ 150 % for 30 s / >150 % for 500 ms		
	Admissible overloads in bypass mode	125 ÷ 150 % for 1 min / >150 % for 500 ms		
	Admissible overloads in-line mode	105 ÷ 125 % for 10 min / 125 ÷ 150 % for 1 min / >150 % for 500 ms		
Parallel	Yes, up to 3 units (optional)			
MANUAL BYPASS	Type	External intelligent manual bypass module with programmable output groups (optional)		
BATTERY	Protection	Against overvoltages, undervoltages and overheating		
	Battery type	Pb-Ca sealed, AGM, maintenance-free		
	Charge type	Smart charge with 3 modes		
	Recharge time	3 hours to 90%		
	Maximum no. of EBMs	6 ⁽²⁾		
CHARGER	Temperature voltage compensation	Yes		
	Charging current	Adjustable 2 ÷ 13 A		
COMMUNICATION	Ports	USB-HID/RS-232/RJ-45/HDMI		
	Intelligent slot	for SNMP/AS400/Modbus		
	Monitoring software	Software for Windows, Linux and Mac/app for iOS and Android/web portal		
OTHER FUNCTIONS	Cold start (start-up from batteries)	Yes		
	Emergency stop (EPO)	Yes		
OPERATING MODES	Eco-mode	Yes		
	Eco-mode+	Yes		
	Frequency converter (CVCF)	Yes ⁽³⁾ , operates with or without batteries		
GENERAL	Operating temperature	0° C ÷ +50° C		
	Relative humidity	Up to 95%, non-condensing		
	Maximum operating altitude	4.000 masl ⁽⁴⁾		
	Acoustic noise at 1 metre	<55 dB ÷ <60 dB at full load / <50 dB ÷ <55 dB at 75% load		
STANDARDS	Safety	EN 62040-1		
	Electromagnetic compatibility (EMC)	EN 62040-2 (C3)		
	Operation	VFI-SS-111 (EN 62040-3)		
	Corporate certification	ISO 9001, ISO 14001, ISO 45001		

(1) 110–160 V with linear load reduction to 50%.

(2) EBM modules for 15–20 k power ratings must always be installed in pairs.

(3) 40% reduction in rated power (only in 1:1 configuration).

(4) 1% power reduction for every additional 100 metres above 1,000 masl.

