

# SLC ADAPT2 A

Modular On-line double conversion UPS and modules 14 and 30 kVA

## SLC ADAPT2 A: Flexibility, availability and reliability in superior electrical protection

Salicru's **SLC ADAPT2 A** series consists of modular On-line double conversion uninterruptible power supply (UPS) solutions with DSP control and three-level IGBT inverter technology.

**Flexibility:** It enables solutions to be configured from 14 kVA to 900 kVA, thanks to the range of modules available (14 and 30 kVA), different configurable systems (8, 10 or 12 modules) and the parallel/redundant option of up to three 300 kVA systems. It also provides increased protection as needs grow - pay as you grow - thereby improving total cost of ownership (TCO).

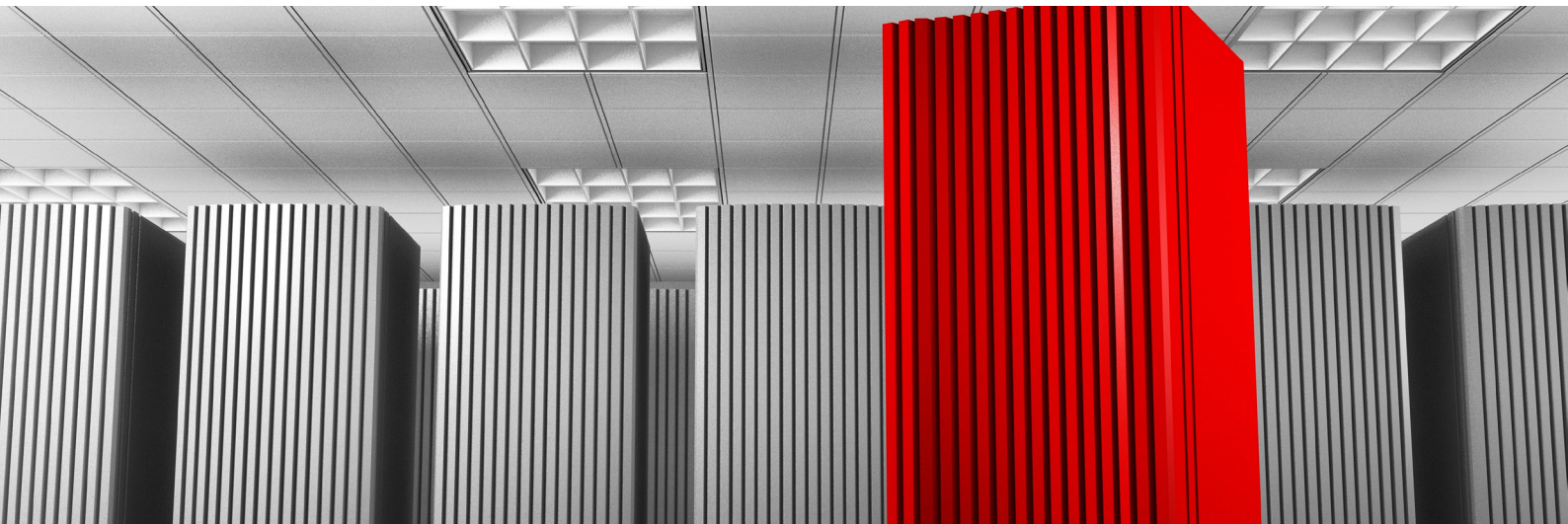
**Availability:** Its hot-swap modules can be added or replaced during operation, thereby improving mean time to repair (MTTR) and reducing maintenance costs. In addition, the system's remote management, which can be integrated into any platform, also facilitates operation. And the extensive back-up options available, along with intelligent battery charging, ensure continuous operation of the protected critical loads.

**Reliability:** Its DSP control, based on three-level PWM technology, improves response effectiveness and, along with shared load redundancy, significantly extends the mean time between failures (MTBF).



## Applications: Redundant protection for critical applications

Data centres with all capacities, IT infrastructures, modular and virtualised data centres and applications for critical processes are some of the services that require high-level electrical protection to ensure reliable, continuous and high-quality operation, such as that provided by Salicru's **SLC ADAPT2 A** series systems.



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## Performances

- On-line double conversion technology with modular architecture.
- 14 and 30 kVA modules with DSP control and three-level PWM technology.
- 8, 10 or 12-module systems (up to 300 kVA per system).
- Possibility of parallel/redundant operation up to 900 kVA.
- Hot-pluggable and swappable plug & play modules.
- Input power factor >0.99.
- Input current distortion (THDi) <3%.
- Three-phase input / output voltages.<sup>(1)</sup>
- Output power factor = 1.
- Control and management by means of LCD display, LEDs and keypad.
- Over 96% efficiency of modules in Online mode.
- 99% performance in Eco-mode operation.
- RS-232, RS-485, relays and USB communication channels.
- Smart slots for extended relays and SNMP/Nimbus.
- Smart-efficiency mode to optimize system performance.
- Improved return on investment (ROI).
- Compact design to save space in server rooms.
- SLC Greenergy solution.



(1) 1/1, 1/3 and 3/1 options with power derating (under request).

## Display

Display consisting of operation keys, status LEDs and touch screen detailing all functions, measurements and alarms.



## Options

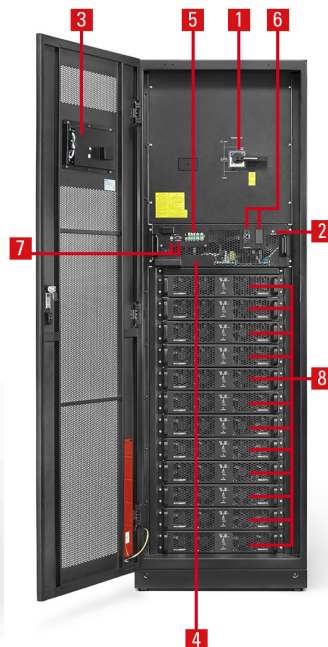
- Extended relays and SNMP/Nimbus adapter.
- Extended back-up times.
- Kit for parallel systems.
- Frequency converter operation.

## Technical support and service

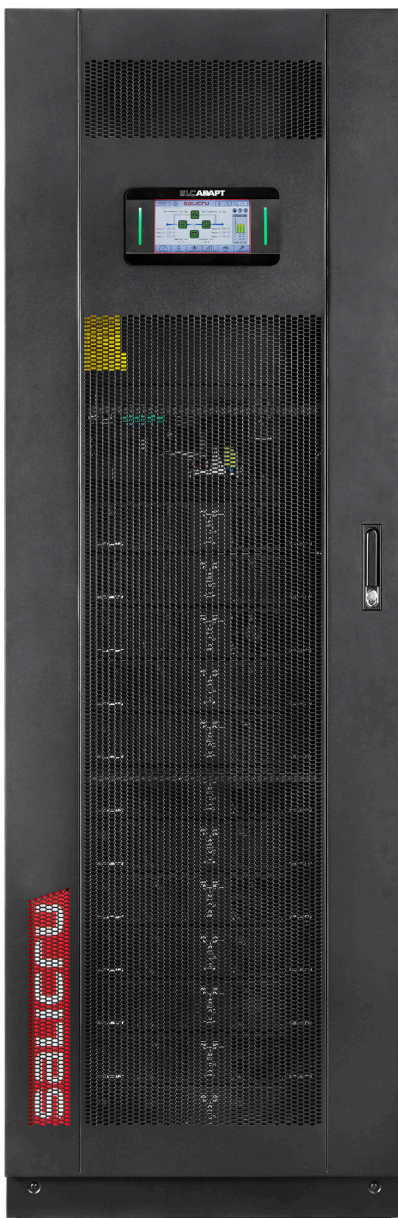
- Pre-sales and after-sales advice.
- Start-up.<sup>(1)</sup>
- Technical support by telephone.
- Preventive/corrective services.
- Maintenance contracts.<sup>(1)</sup>
- Training courses.

(1) Ask for local conditions

## Connections



1. Manual bypass.
2. Start-up from batteries (Cold Start).
3. LCD display.
4. Bypass module.
5. Dry contacts.
6. Extended relays and SNMP/Nimbus slot.
7. RS-232, RS-485 and USB interfaces.
8. Power modules.



## Range

| MODULES         | CODE        | POWER<br>(VA / W) | DIMENSIONS<br>(D × W × H mm) | WEIGHT<br>(Kg) |
|-----------------|-------------|-------------------|------------------------------|----------------|
| SLC ADAPT2 14 A | 694AB100010 | 14000 / 14000     | 671 × 436 × 85               | 18             |
| SLC ADAPT2 30 A | 694AB100016 | 30000 / 30000     | 700 × 510 × 178              | 45             |

| SYSTEMS               | CODE        | NO. MODULES<br>(#) | MODULE POWER<br>(VA / W) | MAX. POWER<br>(VA / W) | DIMENSIONS<br>(D × W × H mm) | WEIGHT<br>(Kg) |
|-----------------------|-------------|--------------------|--------------------------|------------------------|------------------------------|----------------|
| SLC-#/8 ADAPT2 112 A  | 694RA100249 | 1 to 8             | 14000 / 14000            | 112000 / 112000        | 916 × 482 × 1550             | 178            |
| SLC-#/12 ADAPT2 168 A | 694RA100250 | 1 to 12            | 14000 / 14000            | 168000 / 168000        | 960 × 650 × 2000             | 230            |
| SLC-#/10 ADAPT2 300 A | 694RA100251 | 1 to 10            | 30000 / 30000            | 300000 / 300000        | 1100 × 1300 × 2000           | 945            |

Nomenclature, dimensions and weights for devices with input voltage 3 x 220 V, output voltage 3 x 220 V.

Replace # with the number of system modules.

Batteries located in additional cabinets.

The weight shown corresponds only to the system, without modules.

## Dimensions



SLC ADAPT2 14 A



SLC ADAPT2 30 A



SLC-#/8 ADAPT2 112 A



SLC-#/12 ADAPT2 168 A



SLC-#/10 ADAPT2 300 A

## Technical specifications

| MODEL                            |                                     | SLC ADAPT2 A   |  |
|----------------------------------|-------------------------------------|--|--|
| Module power (VA/W)              |                                     | 14000 / 14000  | 30000 / 30000                                  |
| TECHNOLOGY                       |                                     | On-line double conversion, three-level PWM, DSP control                      |  |
| INPUT                            | Rated three-phase voltage (3P+N)    | 3 × 200 / 208 V  |  |
|                                  | Voltage range                       | -27% +25% (Depending on charge) <sup>(1)</sup>                               | -40% +25% (Depending on charge) <sup>(1)</sup> |
|                                  | Rated frequency                     | 50 / 60 Hz   |  |
|                                  | Frequency range                     | 40 - 70 Hz   |  |
|                                  | Total harmonic distortion (THDi)    | ≤3%  |  |
|                                  | Power factor                        | >0,99  |  |
|                                  | OUTPUT                              | Power factor   | 1  |
| Rated three-phase voltage (3P+N) |                                     | 3 × 200 / 208 V  |  |
| Accuracy                         |                                     | ±1%  |  |
| Total harmonic distortion (THDv) |                                     | ≤1%  |  |
| Frequency                        |                                     | 50 / 60 Hz   |  |
| Module performance (On-line)     |                                     | >96%   |  |
| Performance in Smart Eco-mode    |                                     | 99%  |  |
| Admissible overloads             |                                     | 125% for 10 mins / 150% for 1 min  |  |
| Crest factor                     |                                     | 2,6:1  |  |
| MANUAL BYPASS                    | Type                                | Uninterrupted  |  |
| STATIC BYPASS                    | Type                                | Static thyristor   |  |
|                                  | Three-phase voltage (V)             | 3 × 200 / 208 (3P + N)   |  |
|                                  | Admissible overloads                | ≤110% constant / ≤130% for 1 hour / ≤150% for 1 minute / >150% for 5 seconds |  |
| BATTERY                          | Battery type                        | Pb-Ca, VRLA, lead acid, gel, Ni-Cd, Li-Ion                                   |  |
|                                  | Charging voltage regulation         | Batt-watch   |  |
|                                  | Charger maximum power (W)           | 20% of total system power  |  |
| COMMUNICATION                    | Display                             | 7" touchscreen and LEDs  |  |
|                                  | Ports                               | RS-232, RS-485, relays and USB   |  |
|                                  | Intelligent slot                    | 1 × Nimbus SNMP/1 × Nimbus extended relays                                   |  |
| GENERAL                          | Operating temperature               | 0° C ÷ +55° C <sup>(2)</sup>   |  |
|                                  | Relative humidity                   | Up to 95%, non-condensing  |  |
|                                  | Maximum operating altitude          | 2,400 masl <sup>(3)</sup>  |  |
|                                  | Acoustic noise at 1 metre           | <65 dB(A)  | <72 dB(A)                                      |
| SYSTEMS                          | Maximum no. modules per system      | 8 or 12  | 10   |
|                                  | Maximum power per system            | 112 / 168 kVA  | 300 kVA  |
|                                  | Maximum no. modules systems         | 30   |  |
|                                  | Maximum power per parallel system   | 420 kVA  | 900 kVA  |
| STANDARDS                        | Safety                              | EN IEC 62040-1   |  |
|                                  | Railway                             | EN 50121-4 / EN 50121-5  |  |
|                                  | Electromagnetic compatibility (EMC) | EN IEC 62040-2   |  |
|                                  | Operation                           | VFI-SS-11 (EN 62040-3)   |  |
|                                  | Seismic                             | IEC 60068-3-3:2019/COR1:2021 / UBC1997 Zone3 & Zone 4 Ip 1.5                 |  |
|                                  | Corporate certification             | ISO 9001, ISO 14001, ISO 45001   |  |

(1) Linear % load derating: For 14 kVA from -20% to -27% and for 30 kVA from -20% to -40%.

(2) Power derating for higher altitudes up to +40°C.

(3) Power degradation for higher altitudes, up to a maximum of 5,000 masl.

Information subject to change without notice.

