

SLC ADAPT 3x480

Modular On-line double conversion UPS 40-1200 kVA

SLC ADAPT 3x480: Flexibility, availability and reliability in superior electrical protection

Salicru's **SLC ADAPT** 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 40 kVA to 1200 kVA, with 40kVA modules to different configurable systems (2, 4, 6, 8 or 10 modules) and the parallel/redundant option of up to three 400 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 ADAPT** series systems.



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Performances

- On-line double conversion technology with modular architecture.
- 40 kVA modules with DSP control and three-level PWM technology.
- 2, 4, 6, 8 or 10-module systems (up to 400 kVA per system).
- Possibility of parallel/redundant operation up to 1200 kVA.
- Hot-pluggable and swappable plug & play modules.
- Input power factor >0.99.
- Input current distortion (THDi) <3%.
- Three-phase input / output voltages.
- Output power factor = 1.
- Control and management by means of LCD display, LEDs and keypad.
- Efficiency in On-line mode >96%.
- 99% performance in Eco-mode operation.
- RS-232, RS-485, relays and USB communication channels.
- Smart slots for extended relays and SNMP.
- Smart-efficiency mode to optimize system performance.
- Improved return on investment (ROI).
- Compact design to save space in server rooms.
- SLC Greenergy solution.



Display

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



Cable entry

- 2/4 slots: front - internal.
- 6 slots: rear - top.
- 8/10 slots: rear - top or rear - internal.

Technical support and service

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

(1) Ask for local conditions

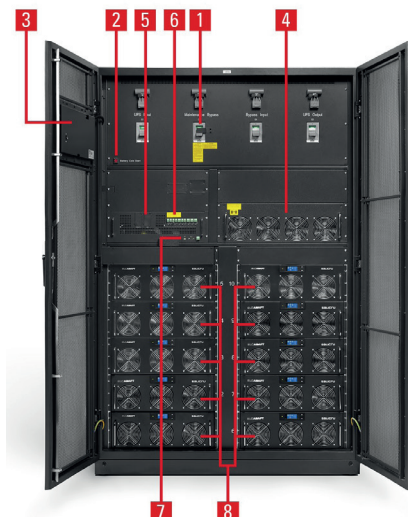
Switches

- 2 slots: input, static bypass, maintenance bypass and output.
- 4 slots: maintenance bypass.
- 6 slots: maintenance bypass.
- 8 slots: input, static bypass, maintenance bypass and output.
- 10 slots: input, static bypass, maintenance bypass and output.

Options

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

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 slot.
7. RS-232, RS-485 and USB interfaces.
8. Power modules.

Range

| MODULES | CODE | POWER (VA / W) | DIMENSIONS (D × W × H mm) | WEIGHT (Kg) |
|--------------|-------------|-------------------|------------------------------|----------------|
| SLC ADAPT 40 | 694AB000015 | 40000 / 40000 | 700 × 510 × 178 | 45 |

| SYSTEMS | CODE | NO. MODULES (#) | MODULE POWER (VA / W) | MAX. POWER (VA / W) | DIMENSIONS (D × W × H mm) | WEIGHT (Kg) |
|--------------------|-------------|--------------------|--------------------------|------------------------|------------------------------|----------------|
| SLC-#/40-ADAPT 80 | 6940Q000063 | 1 to 2 | 40000 / 40000 | 80000 / 80000 | 960 × 600 × 1150 | 165 |
| SLC-#/40-ADAPT 160 | 6940Q000064 | 1 to 4 | 40000 / 40000 | 160000 / 160000 | 960 × 650 × 1600 | 215 |
| SLC-#/40-ADAPT 240 | 6940Q000065 | 1 to 6 | 40000 / 40000 | 240000 / 240000 | 1095 × 650 × 2000 | 265 |
| SLC-#/40-ADAPT 320 | 6940Q000066 | 1 to 8 | 40000 / 40000 | 320000 / 320000 | 1100 × 1050 × 2000 | 380 |
| SLC-#/40-ADAPT 400 | 6940Q000067 | 1 to 10 | 40000 / 40000 | 400000 / 400000 | 1100 × 1300 × 2000 | 495 |

Nomenclature, dimensions and weights for devices with input voltage 3 x 480 V, output voltage 3 x 480 V.
 Replace # with the number of system modules.
 Batteries located in additional cabinets.
 The weight shown corresponds only to the system, without modules.

Dimensions



Technical specifications

| MODEL | | SLC ADAPT 3x480 |
|---------------------|--------------------------------------|---|
| Module power (VA/W) | | 40000 / 40000 |
| TECHNOLOGY | | On-line double conversion, three-level PWM, DSP control |
| INPUT | Rated three-phase voltage (3P+N) | 3 × 480 V (3F + N) |
| | Voltage range | -40% +10% ⁽¹⁾ |
| | Rated frequency | 50 / 60 Hz |
| | Frequency range | 40 - 70 Hz |
| | Total harmonic distortion (THDi) | ≤3% |
| | Power factor | >0.99 |
| OUTPUT | Power factor | 1 |
| | Rated voltage | 3 × 480 V (3F + N) |
| | Accuracy | ±1% (Static) / +/- 1.5% (Dynamic) |
| | Total harmonic distortion (THDv) | ≤1% |
| | Frequency | 50 / 60 Hz |
| | Total performance in On-line mode | >96% |
| | Performance in Smart Eco-mode | 99% |
| | Total performance in batteries mode | >95% |
| | Admissible overloads | >150% for 200ms / 150% for 1 min / 125% for 10 mins / 110% for 1 hora |
| MANUAL BYPASS | Crest factor | 3:1 |
| | Type | Uninterrupted |
| STATIC BYPASS | Type | Static thyristor |
| | Three-phase voltage (V) | 3 × 480 V (3P + N) |
| BATTERY | Battery type | SLA maintenance-free, NiCd, gel, Li-Ion |
| | Charging voltage regulation | Batt-watch |
| | Charger maximum power (W) | 20% of total system power |
| COMMUNICATION | Display | Touch panel 10.4" |
| | Ports | RS-232, RS-485, relays and USB |
| | Intelligent slot | 1 × SNMP/1 × extended relays |
| GENERAL | Operating temperature | 0° C ÷ +40° C |
| | Relative humidity | Up to 95%, non-condensing |
| | Maxium operating altitude | 2,400 masl ⁽²⁾ |
| | Acoustic noise at 1 metre | <72 dB(A) |
| SYSTEMS | Maximum no. modules per system | 10 |
| | Maximum power per system (kVA) | 400 |
| | Maximum no parallel systems | 3 |
| STANDARDS | Safety | EN-IEC 62040-1 |
| | Railway | EN 50121-4 / EN50121-5 |
| | Electromagnetic compatibility (EMC) | EN-IEC 62040-2 |
| | Operation | VFI-SS-11 (EN-62040-3) |
| | Quality and environmental management | ISO 9001 & ISO 14001 |

(1) Depending on load percentage.

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

Information subject to change without notice.



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