

SLC ADAPT / X

Modular Uninterruptible Power Supply (UPS) from 10 to 1,500 kVA

salicru



SLC ADAPT / X

Maximum availability and improved energy efficiency

Salicru's **SLC ADAPT** and **SLC ADAPT X** series is a range of modular On-line double-conversion (VFI) UPS systems that provide maximum electrical protection to connected loads and, at the same time, flexibility and adaptability to the growth needs of the facility, yielding substantial financial and energy savings.

The solution consists of power modules with ratings of from 10 to 50 kVA located in cabinets of 2, 3, 4, 6, 8 or 10 modules which, in turn, can form solutions of up to 30 modules, providing maximum flexibility and scalability in solutions ranging from 10 kVA to 1,500 kVA and configurations in parallel or redundant for greater security of protected loads.

For its part, the 3-level On-line double-conversion technology with IGBT used is the best guarantee for a clean, reliable, continuous and economical output supply. In addition, the high performance achieved in On-line mode (>95%) improves the total cost of ownership (TCO), under the operating expenses (OPEX) heading, and the Smart-efficiency or Eco-mode options, depending on the protection needs of the system, can increase the solution's performance up to 99%.

Finally, the wide range of options available, including numerous communication possibilities and backup adaptable to the needs of the facility, enables full integration of the solution, providing greater availability and reliability.

Modularity

Wide range of power modules available

Modules available with power ratings of 10, 15, 25, 30 and 50 kVA, adaptable to any initial power needs and anticipated future growth. *'Pay as you grow' planning.*



SLC ADAPT module

Hot-swap and hot-plug connection

Hot-swap and hot-plug modules that enable the service to remain uninterrupted for operations of expansion/maintenance/replacement of power modules, bypass module or touchscreen display. *Enables adaptation to future needs without interrupting the protection of critical loads, achieving, at the same time, a mean time to repair (MTTR) of less than 10 minutes.*



Vertical scalability up to 500 kVA per cabinet

Wide range of configurations in cabinets of 2, 3, 4, 6, 8 or 10 modules, enabling configurations from 2x10 kVA (20 kVA) to 10x50 kVA (500 kVA) in a single cabinet. *The widest range of configurations for medium-sized power solutions.*

Horizontal scalability up to 1,500 kVA per system

Possibility of configuring systems using cabinets in parallel with configurations from 2x10 kVA (20 kVA) to 3x500 kVA (1,500 kVA). *More power and flexibility for medium-sized facilities with the need for growth or high power.*



Availability

Configurable redundancy N+1, N+2, etc.

Configurable level of redundancy according to the needs of each facility, reaching levels of availability of 99.9999%. *Provides the facility with greater security, as it is a much more competitive solution than the traditional paralleling of UPSs.*

Predictive maintenance

The status of the main components can be viewed through the LCD display. *Facilitates maintenance of faulty components or modules.*

Remote diagnostics

Remote maintenance system through connection to SNMP platforms. *Enables equipment to be monitored and accessed via the web, and the client or technical service department to be notified of an incident.*

Easy maintenance

Removal from the front of all plug-in modules (power, bypass and display). *Reduction in the technical service department's MTTR, which proportionally increases availability.*

Cold-start battery ⁽¹⁾

System start-up through batteries when the mains supply is unavailable. *Ensures power supply to loads in situations of high criticality.*

(1) Except SLC Adapt X cabinets with 10 or 15 kVA modules

Reliability

Totally independent modules

Each module incorporates a filter, control, rectifier, battery charger and inverter system. *Ease of load distribution, battery charging and maintenance operations.*

VFI double-conversion technology

Double conversion between input and output, AC/DC + DC/AC, providing a clean, stable and reliable voltage at output. *Protects the load from all electrical mains disturbances and supplies it with the highest quality voltage.*

Centralised bypass system

Each cabinet incorporates a static bypass and a maintenance bypass appropriate for the total power that it can assume. *Equipped for expansion of the total number of power modules without the need to reconfigure the cabinet every time the power is changed.*

Redundant fans

System of redundant fans with separate air flow circuits in each power module's rectifier and inverter systems. *Redundant security in one of the most necessary elements for keeping the modules in optimum operating conditions.*

Standardised design

Highly-controlled module electronics design and serial production, thereby reducing manufacturing faults. *Increases mean time between failures (MTBF).*

SLC experience

Know-how in electrical continuity and protection solutions accumulated over 50 years of Salicru history. *More than 800,000 UPSs sold in more than 130 countries, representing a total power equivalent to more than 5 million protected computers.*

Flexibility

Modules of 10 to 50 kVA and cabinets with 2, 3, 4, 6, 8 or 10 power modules

57 possible combinations for the different cabinets and modules available. And up to 1,000 possible combinations for cabinet systems in parallel. *Maximum adaptability to the needs of each facility and its future growth.*

Open for communication

Through the various communication interfaces available (RS-232, RS-485, USB ⁽¹⁾ or relay) or integration into SNMP platforms and virtualised environments. *Maximum options for communication with the outside world via integration into platforms or through the Internet for management, monitoring and remote maintenance.*

(1) According to model

Wide range of options available

From separate bypass lines to frequency converter functions, the list of options available is extensive. *Achieves full integration into the environment to be protected.*

Backup adaptable to growth needs

Installation of batteries in separate or internal cabinets in the same equipment ⁽¹⁾ with the possibility of expansion according to the evolution of the facility's power. *Provides adaptability to the requirements of the application.*

(1) According to model

Touchscreen display + keypad

Graphic display of (7" or 10.4") + block diagram + LEDS and keypad for full control of the equipment, including graphics, data and messages (depending on the model). *Ease of handling the equipment, its configuration and the receipt of warnings and alarms.*



Display SLC ADAPT

Ease of connection and start-up

Connections at the back with top or bottom cable entry and double back door or back cover to save space. *Optimised to facilitate installation work and commissioning to reduce start-up time.*

Compatible with power generators

Sequential turning on of the modules for greater compatibility with power generators. *Easy integration into facilities equipped for prolonged outages with supplementary energy sources.*

Resilience

Totally decentralised control

Each power module has its own fully independent control without master/slave structure to achieve a completely balanced distribution of loads. *Ensures continued protection of loads with immediate readjustment of their distribution.*

Performance unaffected by high temperatures

Designed for continuous use in environments of up to 40°C without power degradation. *Enables availability in conditions above the standard in computer rooms.*

High power factor for any kind of load

For SLC Adapt X models, the Output Power Factor is the unit (FP = 1 / for SLC Adapt FP = 0.9). Wide power factor range, even in the event of sudden and rapid changes. *Ability to supply loads without degrading power or affecting the protected processes.*

EPO - Emergency Power Off

Emergency stop switch to totally isolate the output in emergency situations. *Electrical isolation of outputs to prevent incidents from spreading during emergencies.*

Static bypass

Support system for uninterrupted transfer directly to the mains in the event of overload or for maintenance work. *Increases the availability of the solution in situations of short circuit, malfunction or major overload.*

Batt-Watch battery care

Monitoring of battery status and regulation of charging according to temperature, connected loads and battery type. *Extends battery life, reduces maintenance costs and recharges batteries quickly.*

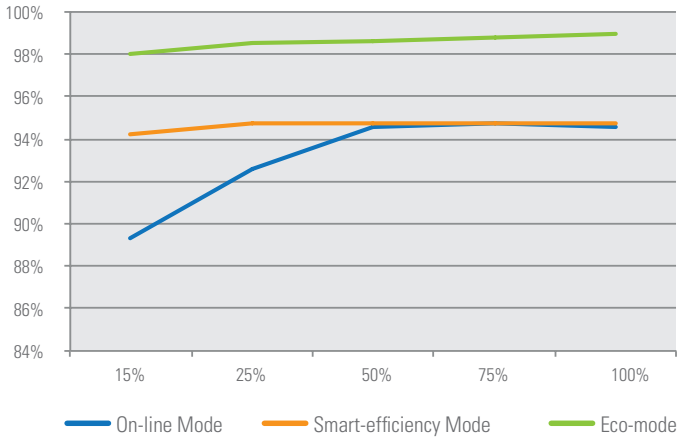
Recording of waveforms

Storing of the waveforms of critical elements during fault conditions. *Important information for more reliable and rapid maintenance service diagnosis.*

TCO

High efficiency in double conversion

3-level PWM power modules with integrated IGBT packs. *Reduces cooling costs and improves energy efficiency, bringing down total operating expenses (OPEX).*



Very low input current harmonic distortion (THDi)

No need to oversize the capacity of the power generator, transformers or power cables. *Brings down total capital expenditure (CapEx).*

Reduced space requirement

Up to 300 kVA in 0.66 m² for greater power density. *Greater power in the same reduced space, thereby bringing down total capital expenditure (CapEx).*

Optimising expenditure

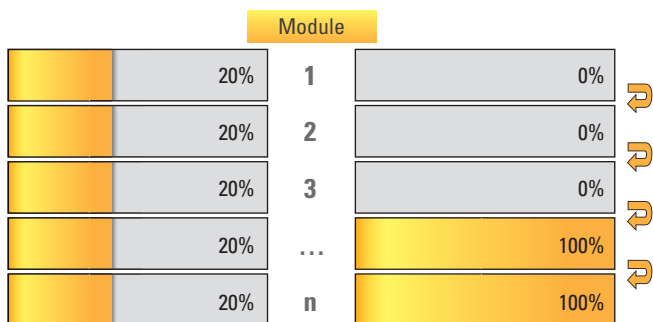
Adaptability to grow at the same rate as the expansion of the data centre, simply with the addition of new power modules. *The energy savings achieved with a modular UPS are substantially better than a more traditional solution, thereby bringing down OPEX.*

Eco-mode

When it is not necessary to improve the quality of the input line, the powering of the loads can be carried out through the bypass, passing to the double-conversion inverter in less than 10 ms if the input conditions exceed the pre-set limits. *Increase in performance up to 99%, thereby bringing down OPEX.*

Smart-efficiency mode

In On-line double-conversion mode, the equipment distributes the load among the fewest number of modules possible to find peak operating efficiency. *Improvement in performance without diminishing double-conversion benefits and redundancy availability in the protection of loads, thereby bringing down OPEX.*



On-line Mode:
Proportional load distribution

Smart-efficiency mode:
Optimised load distribution and cycling of functioning modules



SLC ADAPT

Input power factor = 1

Reduced cable cross-selection, protection systems and generator power. *Lower installation and electricity consumption costs, thereby bringing down total capital expenditure (CapEx).*

Applications:

- **Data centres:** Ensuring the operability of environments and preventing losses caused by power outages, whether in modular or virtualised data centres for hosting, housing, computer centres, supercomputers, etc.
- **Health:** Electromedical equipment for analysis, laboratories and vital instruments for ICUs, as well as administration systems, security, medical records, etc.
- **Financial services:** Maintaining the online functionality of financial transactions in centralised payment authorisation systems, continued listing, intercommunication between banking networks, etc.
- **Telecommunications facilities:** Preventing power outages which can cause the suspension of services between subscribers in fixed telephone, mobile, UMTS/LTE infrastructures, and transmission equipment, microwave, fibre optics, etc.



- **Transport systems:** Protecting productivity in electrically complicated systems of control, communication and operation.
- **Infrastructures:** Safeguarding instruments and ensuring proper management of systems in airports, tunnels, roads, railways, ports, etc.
- **IT applications:** Avoiding costs caused by interruptions in availability or loss of information in IT networks, server farms, voice and data networks, CAD/CAM, document management, etc.

TSS - Technical Support and Service

Although the modular design and high-specification features of the **SLC ADAPT** and **SLC ADAPT X** series ensure long MTBFs, Salicru's TSS is still on hand to offer a wide range of services associated with the supply of equipment to provide support for any eventuality or incident anywhere and at any time. The services offered by our extensive network of qualified technicians include:

- **Pre-sales support:** Recommendation of the best solution according to current and future needs.
- **Start-up:** Including system start-up, setting of main parameters and basic training.
- **Maintenance contracts:** Different times and various maintenance plans to ensure maximum performance of the facility.
- **Remote maintenance contracts:** Remote monitoring service for immediate reaction to any incident.
- **Preventative intervention:** 'In-situ' interventions with the aim of preventing future faults.
- **Corrective intervention:** Necessary for repair operations in the event of emergencies/faults.
- **Telephone support:** Advice from our technicians about any issues or incidents concerning our equipment.
- **Batteries:** Monitoring and maintenance of batteries through the BACS system or replacement at the end of their useful life.

Options:

- **Extended backup times:** Additional battery cabinets for facilities that require long backup times.
- **Monitoring and management software:** Sending of warning messages (broadcast, email, SMS), scheduled shutdowns, etc.
- **Shutdown software:** For heterogeneous network systems with different operating systems.



SLC ADAPT X

- **Sicres remote maintenance with/without GPRS modem:** Web-based remote maintenance platform to monitor all system parameters, detect any anomalies and warn/inform the maintenance service.
- **Ethernet/SNMP adapter:** Ethernet adapter for the SNMP network management protocol to integrate the UPS into the IT network completely independently.
- **Extended relay card:** 5 in total, 3 outputs and 2 inputs for systems with 30 or 50 kVA power modules.
- **Temperature and humidity sensors:** Obtaining environmental data about the room in which the UPS is located (requires SNMP adapter).
- **BACS:** Battery monitoring, control and alarm system.
- **Kit for cabinets in parallel:** Kit for interconnecting the cabinets in parallel in order to have up to 30 power modules in one system.
- **Frequency converter:** For 50 to 60 Hz or 60 to 50 Hz conversion.
- **Separate bypass line:** For facilities with dual power supply, enabling the separation of inverter and bypass line power supplies.
- **External manual bypass panel:** Enables maintenance operations with the UPS isolated.
- **Protection panel:** Electrical panel equipped with input and output protection.
- **Single-phase output:** With single-phase or three-phase input for installations of up to 150 kVA.

- **LBS (Load Bus Synchronisation):** Optional module to keep synchronized the outputs of two single UPS's two, even if they are fed from a different power supply.

- **50 A (SLC ADAPT) / 15 A (SLC ADAPT X) charger modules:** Possibility to add extra charger modules in to the free slots of the cabinets in order to allow charging the extended autonomies properly.

- **Single-phase / three-phase input voltage detection:** For railway or similar installations, the UPS itself detects whether the power supply is single-phase or three-phase automatically. Therefore, it avoids the possible errors caused by human actions.

- **Remote control:** Remote panel shows the status of the UPS, in real time, by means of a touch screen, through the RS485 communication port.

- **Compatible with a wide range of batteries:** PbCa, NiCd, flooded/wet lead or VRLA with gel electrolyte.



SLC ADAPT X

SLC ADAPT

Modular On-line double conversion UPS 30-1500 kVA

SLC ADAPT: 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 30 kVA to 1500 kVA, thanks to the range of modules available (30 and 50 kVA), different configurable systems (6 or 10 modules) and the parallel/redundant option of up to three 500 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). Moreover, both the control display and the bypass module can be replaced without affecting the operation of the device.

Performances

- On-line double conversion technology with modular architecture.
- 30 and 50 kVA modules with DSP control and three-level PWM technology.
- 6 or 10-module systems (up to 500 kVA per system).
- Possibility of parallel/redundant operation up to 1500 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 = 0.9.
- Control and management by means of LCD display, LEDs and keypad.
- Efficiency in On-line mode >96%.⁽¹⁾
- 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.

(1) Only in systems with 50 kVA modules.

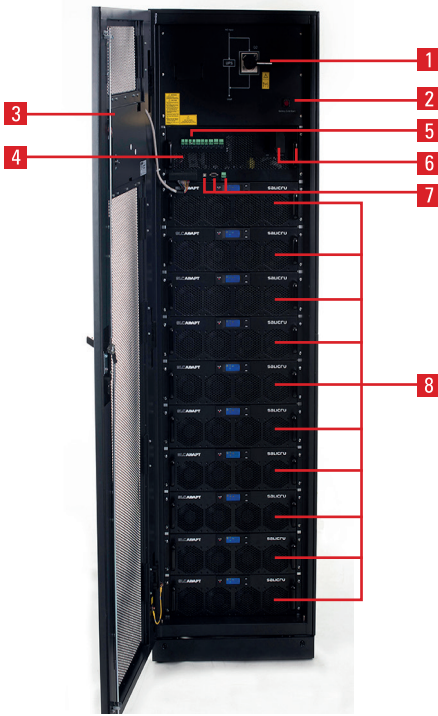


SLC ADAPT

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.

Modularity



1. Manual bypass.
2. Battery start-up.
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.

Display



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

Options

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

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

TECHNICAL SPECIFICATIONS

MODEL		SLC ADAPT	
Module power		30 kVA	50 kVA
TECHNOLOGY		On-line double conversion, three-level PWM, DSP control	
INPUT	Nominal voltage	3 x 380 / 400 / 415 V (3Ph + N)	
	Voltage range	-43% +20% ⁽¹⁾	
	Frequency	50 / 60 Hz	
	Frequency margin	40 - 70 Hz	
	Total harmonic distortion (THDi)	≤3%	
	Power factor	>0,99	
OUTPUT	Nominal voltage	3 x 380 / 400 / 415 V (3Ph + N)	
	Accuracy	±1% (Static) / +/- 1,5% (Dynamic)	
	Frequency	50 / 60 Hz	
	Total harmonic distortion THDv	≤1%	
	Power factor	0,9	
	Crest factor	3:1	
	Total efficiency in On-line mode	>95%	>96%
	Total efficiency in battery mode	>95%	>96%
	Total efficiency in Eco mode	99%	
	Admissible overload	125% for 10 mins / 150% for 1 min	
STATIC BYPASS	Type	Static thyristor	
	Voltage	3 x 380 / 400 / 415 V (3Ph + N)	
MANUAL BYPASS	Type	Uninterrupted	
BATTERIES	Type	SLA maintenance-free, NiCd	
	Voltage load regulation	Batt-watch	
	Charger maximum power	20% of total system power	
COMMUNICATION	Display	10.4"	
	Ports	RS-232, RS-485, relays and USB	
	Free slots	1 x SNMP/1 x extended relays	
GENERAL	Operating temperature	0° C ÷ +40° C	
	Relative humidity	Up to 95%, non-condensing	
	Operating altitude	<2,400 masl ⁽²⁾	
	Acoustic noise at 1 metre	<65 dB(A)	<72 dB(A)
SYSTEMS	Maximum no. modules per system	6 or 10	10
	Maximum power per system (kVA)	180	500
	Maximum no. parallel systems	3	
STANDARDS	Safety	EN 60950-1; EN-IEC 62040-1	
	Electromagnetic compatibility (EMC)	EN-IEC 62040-2	
	Operation	VFI-SS-111 as per EN-IEC 62040-3	
	Quality and environmental management	ISO 9001 and ISO 14001	

⁽¹⁾ Depending on load percentage. ⁽²⁾ Power degradation for higher altitudes, up to a maximum of 5,000 masl.

Data may change without previous notice.

RANGE

MODULES	POWER (kVA / kW)	DIMENSIONS (D x W x H mm.)	WEIGHT (Kg)
SLC ADAPT 30	30 / 27	790 x 460 x 134 (3U)	34
SLC ADAPT 50	50 / 45	700 x 510 x 178 (4U)	45

SYSTEMS	NO. MODULES (#)	MOD. POWER (kVA / kW)	MAX. POWER (kVA / kW)	DIMENSIONS ⁽¹⁾ (D x W x H mm.)	WEIGHT (Kg)
SLC-#/30-ADAPT 180	1 to 6	30 / 27	180 / 162	1100 x 600 x 1600	199 ÷ 369
SLC-#/30-ADAPT 300	1 to 10	30 / 27	300 / 270	1100 x 600 x 2000	200 ÷ 560
SLC-#/50-ADAPT 500	1 to 10	50 / 45	500 / 450	1100 x 1300 x 2000	945 ÷ 1350

⁽¹⁾ Batteries located in additional cabinets.
Nomenclature, dimensions and weights for devices with input voltage 3 x 400 V, output voltage 3 x 400 V.



SLC ADAPT X

On-line double-conversion modular rack UPS 10 to 750 kW

SLC ADAPT X: Modularity, optimisation and efficiency in electrical safety for data centres

Salicru's **SLC ADAPT X** series UPSs are on-line double-conversion modular solutions for superior electrical protection, featuring DSP control and three-level IGBT technology.

Modularity: The range of modules available -10, 15 and 25 kW- together with the different configurable systems -2, 3, 4, 6 and 8 modules per system- enables adaptation to any environment, with the option of paralleling systems to achieve greater protection or increased power. Preventative diagnosis and frontal extraction of the modules drastically reduces intervention times (MTTR) and increases the availability of the system.

Optimisation: High power density, 25 kW modules occupying only 2U of height require less space in data centres and reduce installation costs. Moreover, expenditure can be optimised by simply adding new modules in line with the pace of growth of the data centre.

Efficiency: The modules with a unity output power factor (kVA = kW) operate with an efficiency of 95-96% and a very flat performance curve for all working modes, resulting in less exertion when cooling and significant energy savings. They also feature various operating modes (Eco-mode, Hibernation, Smart-Efficiency, etc.), which further increase the performance and efficiency of the system.

Features

- Modular on-line double-conversion UPS solutions.
- Output power factor PF=1 (kVA=kW).
- High power density with 10, 15 and 25 kW modules occupying only 2U of height.
- Maximum flexibility with 2, 3, 4, 6 and 8 module systems.
- Parallel growth, up to 750 kW.
- Hot-pluggable and swappable plug & play modules.
- Input power factor >0.99.
- Flexible configurations 1/1, 1/3, 3/1 and 3/3.⁽¹⁾
- Models at 120/127 V and 3x208/220 V.⁽²⁾
- 7" LCD colour touchscreen, LEDs and keypad.
- On-line mode efficiency of up to 96%.
- Eco-mode operation for improved efficiency.
- Smart-Efficiency mode to extend the life of the modules.
- Smart charger of up to 20% of the power of the system.
- RS-232, RS-485 and potential-free contact communication channels.
- Smart slots for SNMP and parallel kit.
- Multi-platform management and monitoring software.
- SLC Greenergy solution.



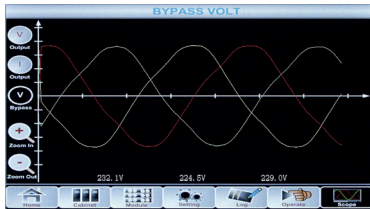
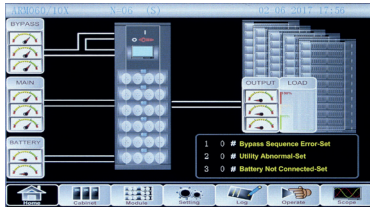
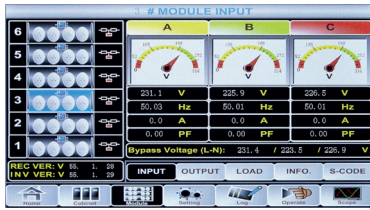
SLC ADAPT X

(1) For systems with 10 kW modules. (2) For systems with 2 or 3 10 kW modules.

Applications: Scalable protection for better adaptation to growing needs

Salicru's **SLC ADAPT X** series modular solutions ensure reliability, quality and continuity and provide improved protection for small and medium-power data centres, both modular and virtualised, as well as IT infrastructures and applications for associated critical processes, avoiding the enormous costs resulting from interruptions in the operation of data centres.

7" colour touchscreen



Large touchpanel display that provides status information and useful records.

Operating modes

On-line mode: Rectifier and charger operating. The load is powered by the inverter.

Battery mode: Power supply failure. Battery in discharge; the inverter powers the load.

Bypass mode: UPS transfers to bypass due to overload or abnormal situation in the device. The load is powered via the bypass.

Eco-mode: Mode for increasing the system's total efficiency, up to 99%

Frequency converter mode: For facilities where mains frequency is not adequate for the loads (50/60 Hz or 60/50 Hz).

Hibernation mode: Programmable system for cycling the modules to extend their life.

Smart-efficiency mode: Distribution of the loads among the fewest number of modules possible to seek peak operating efficiency.

TECHNICAL SPECIFICATIONS

MODEL		SLC ADAPT X		
MODULES POWER (kVA / kW)		10 / 10	15 / 15	25 / 25
TECHNOLOGY		On-line double-conversion, HF, DSP control		
INPUT	Rated voltage	Single-phase	120/127/220/230/240 V	Not available
		Three-phase (3P+N)	3 x 208/220/380/400/415 V	3 x 380/400/415 V
	Voltage range ⁽¹⁾	-40% / +15%		-43% / +20%
	Frequency	40 - 70 Hz		
	Total harmonic distortion (THDi)	≤ 4%		
	Power factor	>0.99		
OUTPUT	Rated voltage	Single-phase	120/127/220/230/240 V	Not available
		Three-phase (3P+N)	3 x 208/220/380/400/415 V	3 x 380/400/415 V
	Accuracy (static / dynamic)	±1% / ±1.5%		
	Frequency	50 / 60 Hz		
	Total harmonic distortion (THDv)	Linear load	< 1%	
		Non-linear load	< 5.5%	< 6%
	Power factor	1		
	Total efficiency in On-line mode	95%		> 96%
Total efficiency in Eco-mode	98%		99%	
Admissible overload	<110% for 1 hour / <125% for 10 min / <150% for 1 min / >150% for 200 ms			
STATIC BYPASS	Type	Static thyristor		
	Transfer time	0 ms		
	Voltage range	-40% / +20%		-40% / +25%
	Admissible overload	<110% permanent / <150% for 1 min		
MANUAL BYPASS	Type	Uninterrupted		
BATTERY	Type	Pb-Ca, lead acid, gel, Ni-Cd		
	Charging voltage regulation	Batt-watch		
	Charger bus voltage	Configurable between +/-192 and +/-264 VDC		
	Charger maximum power	20% of total system power		
COMMUNICATION	Display	7" touchscreen, LEDs and keypad		
	Ports	RS-232, RS-485 and relays		
	Free slots	1 x SNMP		
GENERAL	Operating temperature	0°C ÷ 40°C		
	Relative humidity	Up to 95%, non-condensing		
	Operating altitude	<2,400 masl ⁽²⁾		
	Audible noise at 1 m (50% charge)	<56 dB(A)		<45 dB(A)
SYSTEMS	Maximum no. modules per system	2, 3, 4 or 6 ⁽³⁾	2, 3 or 6	8
	Maximum power per system (kVA=kW)	20, 30, 40, 60 ⁽³⁾	30, 45, 90	200
	Maximum no. modules in parallel	30		
	Maximum power systems in parallel (kVA)	300	450	750
STANDARDS	Safety	EN-IEC 62040-1; EN-IEC 60950-1		
	Electromagnetic compatibility (EMC)	EN-IEC 62040-2		
	Operation	VFI-SS-111 as per EN-IEC 62040-3		
	Quality and Environmental Management	ISO 9001 and ISO 14001		

Information subject to change without notice.

(1) Depending on charge.

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

(3) Systems with 2 or 3 modules for 3x220V voltages / Systems with 2, 4 or 6 modules for 3x400 V voltages.

RANGE

MODULES	POWER (VA / W)	DIMENSIONS (D x W x H mm)	WEIGHT (kg)
SLC ADAPT 10X	10 / 10	590 x 436 x 85	15.3
SLC ADAPT 15X	15 / 15	590 x 436 x 85	15.5
SLC ADAPT 25X	25 / 25	677 x 436 x 85	18

SYSTEMS ⁽¹⁾	NO. MODULES (#)	MODULE POWER (kVA / kW)	MAX. POWER (kVA / kW)	DIMENSIONS (D x W x H mm)	WEIGHT SYSTEM (kg)
SLC-#/10-ADAPT 20X	1 to 2	10 / 10	20 / 20	697 x 485 x 398	57 ÷ 73
SLC-#/10-ADAPT 40X	1 to 4	10 / 10	40 / 40	697 x 485 x 575	66 ÷ 112
SLC-#/10-ADAPT 60X	1 to 6	10 / 10	60 / 60	751 x 485 x 1033	100 ÷ 177
SLC-#/15-ADAPT 30X	1 to 2	15 / 15	30 / 30	697 x 485 x 398	58 ÷ 73
SLC-#/15-ADAPT 45X	1 to 3	15 / 15	45 / 45	751 x 485 x 575	71 ÷ 104
SLC-#/15-ADAPT 90X	1 to 6	15 / 15	90 / 90	751 x 485 x 1033	101 ÷ 178
SLC-#/25-ADAPT 200X	1 to 8	25 / 25	200 / 200	916 x 482 x 1550	178 ÷ 304

(1) Batteries located in additional cabinets. Replace # with the number of system modules.

Nomenclature, dimensions and weights for devices with input voltage 3 x 400 V, output voltage 3 x 400 V.

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Product Range

Uninterruptible Power Supplies (UPS) - Variable Frequency Drives - DC Power Systems - Static Inverters - Photovoltaic Inverters - Voltage stabilisers - Transformers and Autotransformers

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