



# SLC ADAPT Modular UPS from 10 to 100 kVA

## SLC ADAPT: Adaptable, scalable and modular protection

Modularity is something needed by applications (telecommunications, DPC, railway sector, calculation centres) that require availability, growth and redundancy in addition to easy maintenance and lower ownership costs.

Salicru's **SLC ADAPT** series starts with independent 10 kVA UPS modules to enable power extensions and n+n redundant configurations thanks to the system's full modularity, without disconnecting the system (hot-swappable) and no need for tools, in configurations up to 100 kVA. A centralised control module is in charge of the communications, the configuration and monitoring the system. The system is completed with a centralised bypass that charges the loads with the best power supply available.

The flexibility of the **SLC ADAPT** series allows its multiple formats to adapt to the environment thanks to its presentations in subracks of 5 or 10 modules for integration in existing racks or in finished rack cabinets that include input/output switches, maintenance bypass and back-up (the batteries can be housed in the same cabinet or in additional cabinets depending on the required power and autonomy configurations).

## Performances

- Double-conversion, On-line technology.
- Completely independent UPS module.
- Subracks of 50 kVA and 100 kVA with 10 kVA modules.
- Compact and light inverter/ondulator UPS format (9 kg x module).
- Power upgrading and redundant set up by adding modules.
- All options configured with just 3 references.
- Possible three phase/single-phase configurations up to 40 kVA.
- System efficiency up to 96% (3-level inverter).
- Unit input power factor (FP=1).
- Low input current distortion (THDi=3%).
- Modules extended and changed by the users themselves.
- Large variety of options available.
- Parallel/redundant capability by adding systems.
- Mean time to repair (MTTR) under 5 minutes.
- Inversion depending on growth or redundancy needs (pay as you grow).
- SLC Greenergy solution.



SLC ADAPT 5



SLC ADAPT 10



SLC ADAPT control module



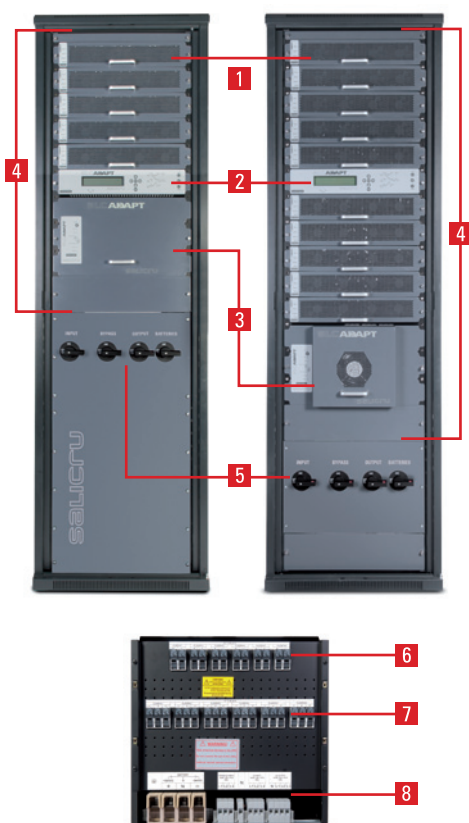
## Applications: Redundant protection for critical applications

The modularity of these systems is used for different purposes:

- To increase the power simply, by adding modules as the installation grows. In this configuration, all of the installed modules are used to give power.

- To achieve redundant systems, where there is always a number of modules prepared to take over in the event of any other failing unexpectedly. A redundant n+1 system therefore has 1 module ready for this; in other words, when the system gives maximum power, this is not taken into account. For example, a 3+2 system uses 3 modules to give power and 2 to make up for any problem there might be in these 3.

## Modularity



1. UPS module.
2. Control module.
3. Bypass module.
4. Subrack.
5. Input, output, bypass and battery switches.
6. Battery protections.
7. Module's input protections
8. Input, output, bypass and battery terminals.

## Options

- Extended autonomies.
- Isolation transformer.
- External manual bypass.
- Web/SNMP or GPRS adapter.
- Monitoring, management and shutdown softwares.
- 1 x additional RS-232/485 port.
- BACS II, monitoring, adjustment and battery alarm.

## Technical support and service

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



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# SLC ADAPT



## Modular UPS from 10 to 100 kVA

## TECHNICAL SPECIFICATIONS

MODEL		SLC ADAPT	
TECHNOLOGY		On-line, double conversion, HF	
INPUT	Nominal voltage	Single phase 220 / 230 / 240 V Three-phase 3 x 380 / 3 x 400 / 3 x 415 V (3Ph+N)	
	Voltage range	+20% / -27 % (@ 3x400V / 230V Ph-N)	
	Frequency	50 / 60 Hz	
	Total Harmonic Distortion (THDi)	3%	
	Power factor	1	
OUTPUT	Nominal voltage	Single phase 220 / 230 / 240 V Three-phase 3 x 380 / 3 x 400 / 3 x 415 V (3Ph+N)	
	Precision	Steady state	±1%
		Dynamic state	±2% (load variations 100% - 0% - 100%)
	Frequency	Synchronised	50 / 60 Hz ±0.5 ±1 ±2 ±3 ±4 Hz (selectable)
		Free running	50 / 60 Hz ±0.1%
	Max. synchronisation speed	1 Hz/s	
	Total Harmonic Distortion (THDv)	<2%	
	Admissible overload	110% during 10 min / 125% during 60 s	
	Admissible crest factor	3:1	
	Total efficiency	96.0%	
STATIC BYPASS	Type and activation criteria	Híbrido control by microprocessor	
	Voltage	Single phase 220 / 230 / 240 V Three-phase 3 x 380 / 3 x 400 / 3 x 415 V (3Ph+N)	
	Frequency	50 / 60 Hz	
	Transfer time	Nil	
MANUAL BYPASS	Type	Without interruption	
	Voltage	Single phase 220 / 230 / 240 V Three-phase 3 x 380 / 3 x 400 / 3 x 415 V (3Ph+N)	
	Frequency	50 / 60 Hz	
RECTIFIER	Structure	Three-phase IGBT complete wave, soft start and PFC	
	Protection	Against transitory over-voltages	
BATTERIES	Type	Lead acid, sealed, maintenance free	
	Recharging time	4-6 hours, to 80% of capacity	
	Protection	Against over-voltages and under-voltages	
	Charge voltage regulation	Batt-Watch	
COMUNICATION	Ports	RS-232	
	Interface to relays	6 programmable	
GENERALS	Operating temperature	0° C ÷ +40° C	
	Relative humidity	Up to 95%, non-condensing	
	Operating altitude	2400 m.a.s.l.	
	Acoustic noise @ 1 metre	<52 dB <sup>(1)</sup>	
STANDARDS	Safety	EN-62040-1-2; EN-60950-1	
	Electromagnetic Compatibility (EMC)	EN-62040-2	
	Operating	VFI-SS-111 according to EN-62040-3	
	Quality and Environmental Management	ISO 9001 and ISO 14001	

(1) For a full loaded module.

Data may change without previous notice.

## RANGE

MODEL	POWER (kVA)	SUBRACK VERSION		42U RACK CABINET VERSION	
		DIMENSIONS (D x W x H mm.)	WEIGHT (Kg)	DIMENSIONS (D x W x H mm.)	WEIGHT (Kg)
1SLC-10-ADAPT/5	10	673 x 19" x 972	43	1000 x 600 x 2020	231
2SLC-10-ADAPT/5	20	673 x 19" x 972	52	1000 x 600 x 2020	240
3SLC-10-ADAPT/5	30	673 x 19" x 972	61	1000 x 600 x 2020	249
4SLC-10-ADAPT/5	40	673 x 19" x 972	70	1000 x 600 x 2020	258
5SLC-10-ADAPT/5	50	673 x 19" x 972	79	1000 x 600 x 2020	267
6SLC-10-ADAPT/10	60	652 x 19" x 1416	64	1000 x 600 x 2020	299
7SLC-10-ADAPT/10	70	652 x 19" x 1416	73	1000 x 600 x 2020	308
8SLC-10-ADAPT/10	80	652 x 19" x 1416	82	1000 x 600 x 2020	317
9SLC-10-ADAPT/10	90	652 x 19" x 1416	91	1000 x 600 x 2020	326
10SLC-10-ADAPT/10	100	652 x 19" x 1416	100	1000 x 600 x 2020	335

(\*) Spain only (\*\*) Rest of the world

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