



SLC ADAPT

Modular On-line double conversion UPS 10-1500 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 10 kVA to 1500 kVA, thanks to the wide range of modules available (10, 15, 20, 25, 30 and 50 kVA), different configurable systems (3, 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.
- 10, 15, 20, 25, 30 and 50 kVA modules with DSP control and three-level PWM technology.
- 3, 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. ⁽¹⁾
- Output power factor = 0.9.
- Control and management by means of LCD display, LEDs and keypad.
- Efficiency in On-line mode >95%.
- 99% performance in Eco-mode operation.
- Configurations 6 or 10 modules 15 kW (FP = 1) to 3 x 200/208 V.
- RS-232, RS-485, relays and USB ⁽²⁾ communication channels.
- Smart slots for extended relays ⁽²⁾ and SNMP.
- Smart-efficiency mode to optimize system performance. ⁽²⁾
- Improved return on investment (ROI).
- Compact design to save space in server rooms.
- SLC Greenergy solution.



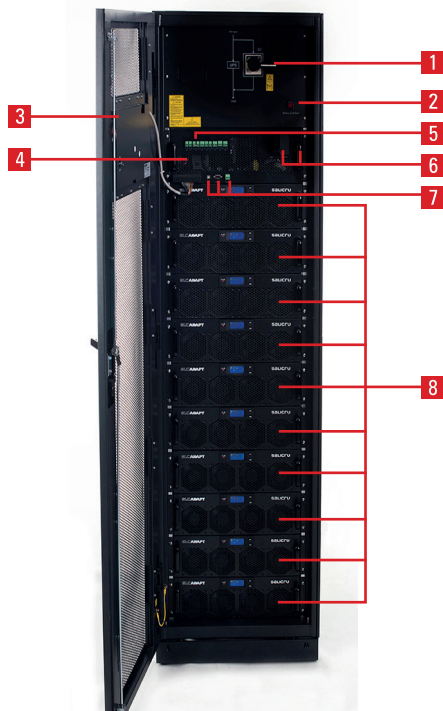
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(1) Possibility of single-phase input/output up to 20kVA. And three-phase input/single-phase output up to 40 kVA.
 (2) Only in systems with 25, 30 and 50 kVA modules.

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 ⁽¹⁾ and SNMP adapter.
- Extended back-up times.
- Kit for parallel systems.
- Frequency converter operation.
- Automatic detection single/three-phase input.

(1) Only for 25,30 and 50 kVA module systems.

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

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TECHNICAL SPECIFICATIONS

MODEL		SLC ADAPT		
Module power		10 / 15 / 20 kVA	25 / 30 kVA	50 kVA
TECHNOLOGY		On-line double conversion, three-level PWM, DSP control		
INPUT	Nominal voltage	3 x 200 / 208 / 380 / 400 / 415 V (3Ph + N) ⁽¹⁾		
	Voltage range	-40% +25% ⁽²⁾	-43% +20% ⁽²⁾	
	Frequency	50 / 60 Hz		
	Frequency margin	40 - 70 Hz		
	Total harmonic distortion (THDi)	≤3%		
	Power factor	>0,99		
OUTPUT	Nominal voltage	3 x 200 / 208 / 380 / 400 / 415 V (3Ph + N) ⁽¹⁾		
	Accuracy	±1% (Static) / +/- 1,5% (Dynamic)		
	Frequency	50 / 60 Hz		
	Total harmonic distortion THDv	≤1.5%	≤1%	
	Power factor	0,9 ⁽³⁾		
	Crest factor	3:1 ⁽⁴⁾		
	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 200 / 208 / 380 / 400 / 415 V (3Ph + N) ⁽¹⁾		
MANUAL BYPASS	Type	Uninterrupted		
BATTERIES	Type	Lead-acid, sealed, maintenance-free, NiCd		
	Voltage load regulation	Batt-watch		
	Charger maximum power	20% of total system power		
COMMUNICATION	Display	5.7"	10.4"	
	Ports	RS-232, RS-485 and relays	RS-232, RS-485, relays and USB	
	Free slots	1 x SNMP	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 ⁽⁵⁾		
	Acoustic noise at 1 metre	<55 dB(A)	<65 dB(A)	<72 dB(A)
SYSTEMS	Maximum no. modules per system	3, 6 or 10	6 or 10	10
	Maximum power per system (kVA)	60, 120, 200	150, 300	500
	Maximum no. parallel systems	2	3	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) Voltages 3 x 200 and 3x 208 only for 15 kW modules (FP = 1) in 6 or 10 module systems. (2) Depending on load percentage. (3) FP = 1 for 15 kW 3x200 / 3x208 modules. (4) For 15kVA 3x200 / 3x208 modules it is 2.6:1. (5) 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 10	10 / 9	590 x 440 x 134 (3U)	20
SLC ADAPT 15	15 / 13.5	590 x 440 x 134 (3U)	21
SLC ADAPT 20	20 / 18	590 x 440 x 134 (3U)	22
SLC ADAPT 25	25 / 22.5	790 x 460 x 134 (3U)	34
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-#/10-ADAPT 30	1 to 3	10 / 9	30 / 27	900 x 600 x 1000	120 ÷ 180
SLC-#/15-ADAPT 45	1 to 3	15 / 13.5	45 / 40,5	900 x 600 x 1000	120 ÷ 183
SLC-#/20-ADAPT 60	1 to 3	20 / 18	60 / 54	900 x 600 x 1000	120 ÷ 186
SLC-#/10-ADAPT 60	1 to 6	10 / 9	60 / 54	900 x 600 x 1600	187 ÷ 270
SLC-#/15-ADAPT 90	1 to 6	15 / 13.5	90 / 81	900 x 600 x 1600	187 ÷ 276
SLC-#/20-ADAPT 120	1 to 6	20 / 18	120 / 108	900 x 600 x 1600	187 ÷ 282
SLC-#/25-ADAPT 150	1 to 6	25 / 22.5	150 / 135	1100 x 600 x 1600	197 ÷ 357
SLC-#/30-ADAPT 180	1 to 6	30 / 27	180 / 162	1100 x 600 x 1600	199 ÷ 369
SLC-#/10-ADAPT 100	1 to 10	10 / 9	100 / 90	900 x 600 x 2000	214 ÷ 380
SLC-#/15-ADAPT 150	1 to 10	15 / 13.5	150 / 135	900 x 600 x 2000	214 ÷ 390
SLC-#/20-ADAPT 200	1 to 10	20 / 18	200 / 180	900 x 600 x 2000	214 ÷ 400
SLC-#/25-ADAPT 250	1 to 10	25 / 22.5	250 / 225	1100 x 600 x 2000	200 ÷ 560
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.

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