



# 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.<sup>(1)</sup>
- Models at 120/127 V and 3x208/220 V.<sup>(2)</sup>
- 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.

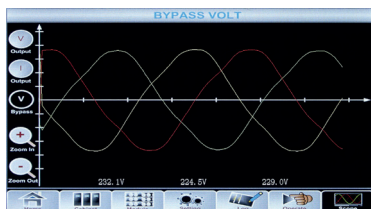
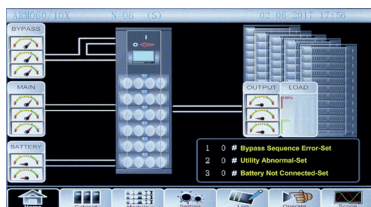
## Applications: Scalable protection for better adaptation to growing needs

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.

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## 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.



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## 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 <sup>(1)</sup>		-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%
STATIC BYPASS	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	
	Type		Static thyristor	
	Transfer time		0 ms	
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 <sup>(2)</sup>	
	Audible noise at 1 m (50% charge)		<56 dB(A)	<45 dB(A)
SYSTEMS	Maximum no. modules per system	2, 3, 4 or 6 <sup>(3)</sup>	2, 3 or 6	8
	Maximum power per system (kVA=kW)	20, 30, 40, 60 <sup>(3)</sup>	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	

(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.

Information subject to change without notice.

## 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 <sup>(1)</sup>	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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