



# SLC X-TRA

Uninterruptible Power Supplies from 100 to 800 kVA

## SLC X-TRA: High performance protection for major critical applications

The **SLC X-TRA** series is one of the most reliable, high-performance three-phase Uninterruptible Power Supply system (UPS) on the market, and provides protection and quality energy for a wide range of applications. Based on the Voltage and Frequency Independent (VFI) mode of operation, it has been developed using double conversion IGBT technology with DSP control, which gives considerable savings in the costs of operation and installation while it offers maximum protection for the connected loads. This series has been conceived to offer the best guarantees in meeting customers' requirements and needs and has been designed in full respect of the most demanding environmental regulations.

The **SLC X-TRA** series features power range from 100 to 800 kVA in a very compact format for easier installation. Plus, the reliability of the system can be increased with the installation of several redundant units or it can grow in parallel based on the needs of the installation.

### Performances

- On-line, double conversion, DSP control.
- Double input connection to increase the availability.
- Input power factor >0.99.
- Total harmonic distortion of input current (THDi) < 3%.
- High energy efficiency between 95% and 96%.
- Zig-zag transformer on the output inverter.
- Parallel for redundancy or increase the power capacity.
- Compatible with generating sets.
- Selectable operation inverter/Smart Eco-mode.
- Efficiency in Smart Eco-mode >98%.
- Prepared to bear loads with FP =0.9.
- Batt-Watch battery monitoring and care.
- Calculates available back-up time in a long-term failure.
- Compact format to save on installation space.
- Easy installation, operation and maintenance.
- A wide range of control and monitoring options.
- Large variety of options available.
- SLC Greenergy solution.

SLC X-TRA 100 kVA



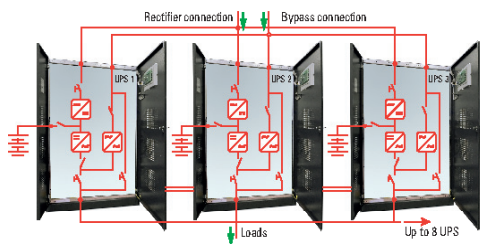
SLC X-TRA 600 kVA



## Applications: Guaranteed energy for all environments

- Data centres:** Ensures the functionality of environments and prevents losses caused by mains failures.
- IT-Networks:** Prevent costs due to service interruptions or loss of information.
- Financial services:** Maintains online operability of financial transactions and operations.
- Industrial processes:** Protects productivity in electrically complicated environments.
- Telecommunications:** Prevents supply failures that can suspend communication between subscribers.
- Infrastructures:** Safeguards the instruments/equipment and ensures the proper management of the systems.

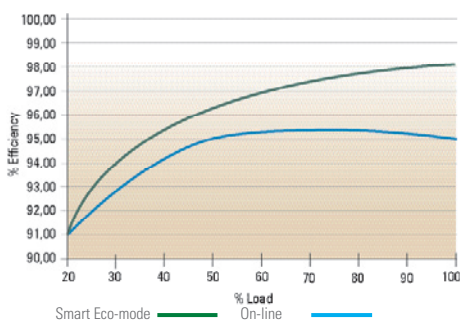
## Parallel growth



Parallel diagram

The parallel UPS can be configured to achieve redundancy or increase the power capacity of the system. Parallel control is fully digital and works for active as well as reactive power in each phase, achieving an exact load distribution between the UPS units in transitory conditions.

## High energy efficiency



High performance both On-line mode (between 95% and 96%) and Smart Eco-mode (>98%), reducing operating costs, implementation costs (no need to oversize the wiring), air conditioning costs (without increasing cooling requirements) and working costs (saving energy consumed).

## Adaptability

- Parallel/redundant kit.
- Extended autonomies.
- BACS II.
- MODBUS protocol + RS-485 interface.
- SICRES platform for remote telemanagement.
- Ethernet / SNMP adapter or GPRS modem.
- Monitoring, management and shutdown software.
- Common input connection.
- Top cable input.
- External manual bypass.
- Auto-transformers to adapt the voltage.

## Total availability

- Advisory service before and after the sale.
- Start up.
- Telephone technical support.
- Preventive / corrective interventions.
- Maintenance contracts.
- Telemaintenance contracts SICRES.
- Training courses.



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# SLC X-TRA



## Uninterruptible Power Supplies from 100 to 800 kVA

## TECHNICAL SPECIFICATIONS

MODEL	SLC X-TRA		
TECHNOLOGY	On-line, double conversion, DSP control		
INPUT	Nominal voltage	Three-phase 3 x 380 V / 3 x 400 V / 3 x 415 V	
	Voltage margin	+15% / -20% (@ 3 x 400 V)	
	Frequency	50/60 Hz (45-65 Hz)	
	Total Harmonic Distortion (THDi)	<3%	
	Power factor	>0.99	
OUTPUT	Nominal voltage	Three-phase 3 x 380 V / 3 x 400 V / 3 x 415 V (3Ph+N)	
	Precision	±1% Steady state; ±5% Dynamic state (100% unbalanced) <20 ms recovery time	
	Frequency	50/60 Hz	
	Total Harmonic Distortion (THDv)	Linear load	<1%
		Non-linear load	<5%
	Efficiency	On-line	95% ÷ 96%
		Smart Eco-mode	>98%
Admissible overload	125% for 10 min. / 150% for 1 min.		
STATIC BYPASS	Type and activation criteria	Solid state, control by microprocessor	
	Input	Independent	
	Voltage	Three-phase 3 x 380 / 3 x 400 / 3 x 415 V (3Ph + N)	
	Frequency	50/60 Hz	
	Transfer time	Nil	
	Transfer to bypass	Immediate for overloads of over 150%	
	Retransfer	Automatic after alarm disappearance	
	Admissible overload	1000% for 1 cycle	
MANUAL BYPASS	Type	Without interruption	
	100 – 300 kVA	As standard	
RECTIFIER	Structure	Three-phase IGBT complete wave, soft start and PFC	
	Protection	Against transitory overvoltages	
BATTERIES	Type <sup>(1)</sup>	Lead acid, sealed, maintenance free	
	Protection	Against overvoltages and undervoltages	
	Charging time	4 hours, @ 80% of capacity	
	Charge voltage regulation	Batt-Watch	
	Test	Manual + Automatic	
COMMUNICATION	Ports	RS-232, USB, Emergency Power Off (EPO), Port for monitoring battery switch	
	Display	LCD + LED block diagram	
GENERALS	Operating temperature	0° C ÷ +40° C	
	Relative humidity	Up to 95%, non-condensing	
	Operating altitude	<1.000 m.a.s.l.	
	Acoustic noise @ 1 metre	<60 dB	
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) Ni-Cd under request.

Data may change without previous notice.

## RANGE

MODEL	POWER (kVA / kW)	N° CABINETS (UPS + BAT)	UPS DIMENSIONS (D x W x H mm)	WEIGHT (kg)	BAT. DIMENSIONS (D x W x H mm)	WEIGHT (kg)
SLC-100-XTRA	100 / 90	1 + 1	865 x 815 x 1705	630	850 x 1300 x 1900	875
SLC-125-XTRA	125 / 112,5	1 + 1	865 x 815 x 1705	662	850 x 1300 x 1900	1370
SLC-160-XTRA	160 / 144	1 + 1	865 x 815 x 1705	720	850 x 1300 x 1900	1370
SLC-200-XTRA	200 / 180	1 + 1	895 x 1220 x 1905	870	850 x 1300 x 1900	1550
SLC-250-XTRA	250 / 225	1 + 1	895 x 1220 x 1905	1020	850 x 1300 x 1900	1800
SLC-300-XTRA	300 / 270	1 + 2	895 x 1220 x 1905	1200	850 x 1300 x 1900	1370
SLC-400-XTRA	400 / 360	1 + 2	990 x 1990 x 1920	1820	850 x 1300 x 1900	1800
SLC-500-XTRA	500 / 450	1 + 2	990 x 2440 x 2020	2220	850 x 1300 x 1900	1800
SLC-600-XTRA	600 / 540	1 + 2	990 x 2440 x 2020	2400	850 x 1300 x 1900	2125
SLC-800-XTRA	800 / 720	1 + 3	990 x 3640 x 1920	3600	850 x 1300 x 1900	1925

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

**902 48 24 00\* +34 93 848 24 00\*\* WWW.SALICRU.COM**

AVDA. DE LA SERRA 100 · 08460 PALAUTORDERA (SPAIN) · FAX +34 93 848 11 51 · salicru@salicru.com

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