SLC X-PERT

Uninterruptible power supplies 80 to 400 kVA

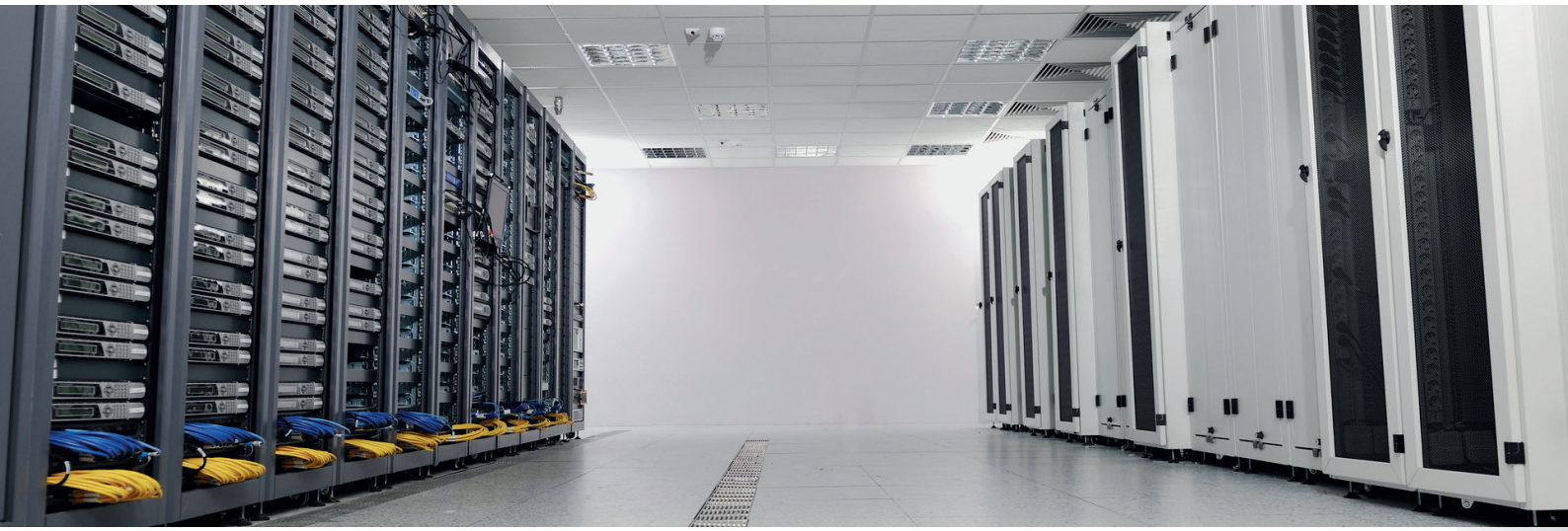
SLC X-PERT: High critical power facilities protected by high functionalities

Salicru's **SLC X-PERT** series consists of three-phase UPSs that combine very low total cost of ownership (TCO) with very high efficiency and compact design, providing high-quality uninterruptible power for all critical applications. The technology incorporated offers one of the highest efficiencies on the market in VFI mode and 100% of expected battery life.

The **SLC X-PERT** series maximises the use of the surface occupied thanks to its high power density design. Models from 200 kVA have complete front access, precluding the need for side or rear space, making them easy to maintain and installable side by side, back to back or against a wall. The common battery option further enhances the ability of the **SLC X-PERT** series to deliver low footprint solutions, freeing space for other equipment.

Applications: Guaranteed energy for all environments

Data centres: Ensures the functionality of environments and prevents losses caused by net 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.



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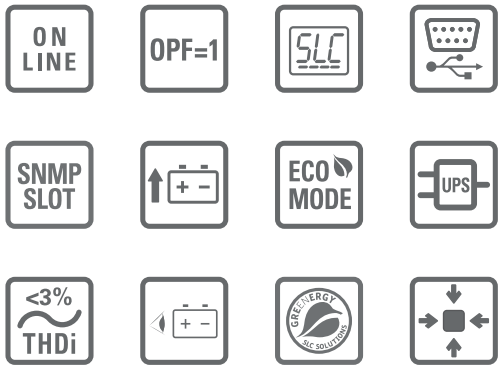
Performances

· On-line, double-conversion and DSP control technology.
· Output power factor 1 (VA=W).
· Input current distortion rate (THDi) <3%.
· Double input connection to increase availability.
· Input power factor >0.99.
· High energy efficiency, between 95% and 96% in normal mode and up to 97% in high-efficiency mode.
· No transformer in the inverter, compact design and less weight.
· Parallel system for redundancy or capacity purposes.
· Monitoring and care of batteries with Batt-Watch and longer life in high-efficiency mode.
· Compatible with power generators.
· 10" touch screen for all models.
· Selectable on-line/eco-mode operation.
· Calculation of the backup available in the event of lengthy power cuts.
· Extended life for consumables.
· Wide range of options available.
· SLC Greenergy solution.



High-efficiency mode

High-efficiency operating mode disconnects the DC bus battery when it is fully charged, enabling the DC voltage to be lowered to achieve performance of up to 97% working in on-line mode and in turn protecting and extending the life of the batteries.

Parallel systems featuring UPSs with different powers

For cases in which there is only one UPS and, due to expansion needs, it is necessary to install another device in parallel, the **SLC X-PERT** series enables two devices with different powers to parallel each other in parallel systems of 2 units. For example, a power of 125 kVA with a 100 kVA device.

Technical support and service

· Pre- and after-sales service.
· Commissioning.
· Telephone technical support.
· Preventative/corrective intervention.
· Maintenance contracts.
· Remote maintenance contracts.
· Training courses.

Options

· Parallel/redundant kit.
· Extended backup times.
· Common rectifier/bypass input.
· SNMP adapter.
· NIMBUS adapter for remote management.
· External output voltage synchronism.
· Backfeed protection.
· Transformer.
· Battery temperature sensor.
· Top cable entry.
· External maintenance bypass.
· Modbus protocol.

Heat loss

MODEL	HEAT LOSS 100% LOAD	COOLING
SLC-80-XPERT	4.20 kW	1000 m^3 /h
SLC-100-XPERT	5.30 kW	1200 m^3 /h
SLC-125-XPERT	6.60 kW	1200 m^3 /h
SLC-160-XPERT	8.40 kW	1500 m^3 /h
SLC-200-XPERT	9.40 kW	1800 m^3 /h
SLC-250-XPERT	11.80 kW	2200 m^3 /h
SLC-300-XPERT	14.10 kW	2300 m^3 /h
SLC-400-XPERT	17.50 kW	4500 m^3 /h

Range

MODEL	CODE	POWER (VA / W)	Nº CABINETS (UPS + BAT)	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)	BAT DIMENSIONS (D × W × H mm)	BAT WEIGHT (Kg)
SLC-80-XPERT	695KA000010	80000/80000	1+0	940 × 560 × 1800	300	-	-
SLC-100-XPERT	695KA000012	100000/100000	1+1	940 × 560 × 1800	320	855 × 1305 × 1905	829
SLC-125-XPERT	695KA000013	125000/125000	1+1	940 × 560 × 1800	360	855 × 1305 × 1905	829
SLC-160-XPERT	695KA000014	160000/160000	1+1	940 × 560 × 1800	380	855 × 1305 × 1905	1550
SLC-200-XPERT	695KA000006	200000/200000	1+1	970 × 880 × 1975	720	855 × 1305 × 1905	1862

Batteries located in cabinets.
Nomenclature, dimensions and weights for devices with input voltage 3 x 400 V, output voltage 3 x 400 V and standard backup.
This code corresponds olny to the UPS module. Consult code for battery module.

MODEL	CODE	POWER (VA / W)	Nº CABINETS (UPS + BAT)	DIMENSIONS (D × W × H mm)	WEIGHT (Kg)	BAT DIMENSIONS (D × W × H mm)	BAT WEIGHT (Kg)
SLC-250-XPERT	695KA000007	250000/250000	1+1	970 × 880 × 1975	850	695 × 2500 × 2285	2171
SLC-300-XPERT	695KA000008	300000/300000	1+1	970 × 880 × 1975	930	695 × 2500 × 2285	2879
SLC-400-XPERT	695KA000009	400000/400000	1+1	970 × 1450 × 1975	1000	695 × 2500 × 2285	3414

Batteries located in banks.
Nomenclature, dimensions and weights for devices with input voltage 3 x 400 V, output voltage 3 x 400 V and standard backup.
This code corresponds olny to the UPS module. Consult code for battery module.

Dimensions

SLC-80÷160-XPERT

SLC-200÷300-XPERT

SLC-400-XPERT

Technical specifications

MODEL		SLC X-PERT
TECHNOLOGY		On-line, double-conversion, DSP control
INPUT	Rated voltage	Three-phase 3 × 380 V / 3 × 400 V / 3 × 415 V (3P+N)
	Voltage range	+15% / -20% (@ 3 × 400 V)
	Rated frequency	50 / 60 Hz (45-65 Hz)
	Frequency range	±10%
	Total harmonic distortion (THDi)	<3%
	Power factor	>0.99
OUTPUT	Power factor	1
	Rated voltage	Three-phase 3 × 380 V / 3 × 400 V / 3 × 415 V (3P+N)
	Total harmonic distortion (THDv) Non~linear load	<5%
	Synchronised frequency	±2 Hz
	Frequency	50 / 60 Hz
	High-efficiency performance	Up to 97%
	Eco-mode performance	≥98%
	Admissible overloads	125% for 10 min / 150% for 1 min
	Crest factor	3 a 1
STATIC BYPASS	Type and activation criteria	Solid state, microprocessor controlled
	Voltage (V)	Three-phase 3 × 380 V / 3 × 400 V / 3 × 415 V (3P+N)
	Transfer time (ms)	Nil
	Transfer to bypass	Immediate, for overloads exceeding 150%
	Retransfer	Automatic after alarm discontinuation
	Frequency range	±10% (selectable)
	Voltage range	±10% (selectable)
	Input	Independent
	Frequency	50 / 60 Hz
	Admissible overloads	1000% for 1 cycle
BATTERY	Battery type	Lead acid, sealed, maintenance free(1)
	Charge type	Type of charge IU (DIN 41773)
COMMUNICATION	Ports	RS-232, USB
	Backlit LCD display	10" touch screen
GENERAL	Operating temperature	0 ÷ +40ºC
	Relative humidity	95% non-condensing
	Maxium operating altitude	2400 m.a.s.l.(2)
	Acoustic noise at 1 metre	<60dB up to 160kVA; <65dB up to 300kVA; <72dB for 400kVA
STANDARDS	Safety	EN-IEC 62040-1
	Electromagnetic compatibility (EMC)	EN-62040-2
	Operation	EN62040-3 (VFI-SS-111)
	Quality and environmental management	ISO 9001 & ISO 14001

(1) Ni-Cd, Li-Ion and other types of battery available on request.
(2) Power degradation up to 5,000 masl.

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