

The Sinercom logo features the company name in a blue, sans-serif font, with a stylized orange and blue circular graphic element behind the letters.

FEATURES

- TRANSFORMERLESS TECHNOLOGY
ONLINE WITH DOUBLE CONVERSION
- INPUT POWER FACTOR ≥ 0.99
- THDi $\leq 3\%$
- PARALLELABLE UP TO 8 UNITS
- REMOTE CONTROL WITH SNMP
- AUTOMATIC BATTERY TEST
- HIGH EFFICIENCY UP TO 95%
- EASY READING LCD DISPLAY
- SERIAL RS232 PORT
- EXTERNAL REPO SWITCH INPUT
- INDICATOR OF BATTERY LIFE
- ECOMODE OPERATION
- COLDSTART FUNCTION
- 512 EVENT MEMORY
- OUTPUT, SHORT CIRCUIT AND
OVERLOAD PROTECTION
- CLOCK AND CALENDARY

LION

10-160 KVA

Three-phase Input and Output

**Uninterruptible Power Supplies
On-Line double conversion**

from 10kVA to 160kVA

The new LION series family of three-phase uninterruptible power supplies provides the optimal solution for the protection of any three-phase load and equipment, adopting technical solutions that guarantee total reliability at very competitive price.

CHARACTERISTICS OF THE LION SERIES

The new UPS of the LION series is built in a strong structure suitable for all environments, both civil and industrial. The highly advanced digital DSP control of all the group's functions guarantees high reliability in particularly stressful situations, such as highly unstable mains voltages, distorting, dynamic and unbalanced loads, multiple daily network failures. The sinusoidal input with low harmonic distortion ($\leq 3\%$) resulting from the IGBT rectifier and the input power factor equal to 1 make the LION group the ideal solution with zero/low electrical impact towards the network. An easy-to-read and operational menu allows the user to customize, control and check many electrical parameters and different group functions. LION ups can be paralleled up to 8 units of the same power, both in redundant or hot-standby configuration. Groups can be interfaced to a computer connected via RS232 serial cable and management software (standard) or to intra-internet networks via SNMP network card (optional); there are also available RS-485 communication outputs, free contacts and industrial protocols such as Modbus.



LION

10-160 KVA

Three-phase input and output

MODEL	LION10	LION15	LION20	LION30	LION40	LION60	LION80	LION100	LION120	LION160
Power (kVA)	10	15	20	30	40	60	80	100	120	160
INPUT										
Power Factor	P.F ≥ 0.99 , THDi ≤ 3%									
Voltage	3 phases + neutral + ground 380-400 VAC, +/-20% (415+/- 15%)									
Frequency	50Hz / 60Hz selectable, +/-5%(adjustable)									
Voltage Distortion	≤ 10%									
Bypass Voltage	3 phases + neutral + ground 380-400-415 VAC +/-20%									
Protection	Short circuit, Voltage and Frequency tolerance, Phase sequency									
OUTPUT										
Power (kW)	9	13,5	18	27	36	54	72	90	108	144
Power Factor	0,9									
Voltage	3 phases + neutral + ground 380-400-415 VAC, +/-0,1%									
Frequency	50-60 Hz selectable, Synchron +/- 2%									
THD at full load	<3%									
AC/AC Efficiency	up to 95%									
Crest Factor	3:1									
Overload	100-125% load 10 minutes, 125-150% 1 min, >150% trasf bypass (adjustable)									
Protection	Overload, Advanced short circuit, DC balance, Current limit									
BATTERIES										
Quantity	Maintenance free, Sealed Lead Acid Type / 2 x 30 =60 batteries									
Float Voltage	2x405 VDC									
End of Discharge	2x300 VDC									
Battery Cabinet	Internal					External				
Temperature Operating	25°C									
Battery Protection	Batteries fuses, 3 level alarms, Charge current limit, Temp. compensation <small>Optional</small>									
Automatic Battery Test	Standard: every 72 hours (adjustable)									
GENERAL										
Display	4 lines LCD panel, Signal Led, 5 vector buttons, buzzer and (optional: touch screen)									
Allarm Logging	Standard: with time and date (192 events, 14400 alarms) optional: 512 events									
Clock	Standard: Supported by dedicated battery									
Communication	2 - RS232 serial ports, standard 4 dry contacts and relays alarms, + optional: 8 relays									
Generator set kit	Standard (programmable)									
Control Software	Standard: for 3 clients management, + 1 server management									
Protection	Power module over temperature, Over current, High temperature									
Indicators	P-N Voltage, P-P Current Voltage, Crest Factor, Frequency, Power factor, Service Time									
Advanced	Self diagnostic, 4 service time indicators, calibration over RS232									
Operating Temperature	0-40°C									
Protection Degree	IP20									
Humidity / Altitude	90% (not condensed) / < 1000m above sea level									
Acoustic Noise	<60 Dba					<65 Dba				
Weight (Kg.)	90	90	93	102	173	180	194	220	220	260
Dim. (L x P x H) /mm	300 x 770 x 1250			400 x 815 x 1040	515 x 850 x 1440					
Regulations	EN62040-1, EN62040-2, EN62040-3									
OPTIONS										
Adaptors	SNMP, MODBUS, RS485, remote panel									
Input	Isolation Transformer, 110V Input									
Output	Isolation Transformer, 110V Output, N+1 redundant system									
Batteries	Different backup times, Ni-CD batteries, continous battery test system									
Software	T-MON Admin multi UPS monitoring, T-MON Server 10-50-100-200 clients - DLOG log loader									
Parallel	Up to 8 UPS									

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