



Trigger True Online double conversion **LineGuard X** Series UPS is rated at 1kVA, 2kVA, 3kVA, 6kVA and 10kVA, equipped to provide clean and quality backup power supply to the equipment supported.

It's tower design suits most installation in offices, banks, small Data Centre, to continuously provide power protection to enterprise servers, networking equipment, telecommunication systems, security system, and many other critical applications.

LineGuard X Series UPS has the flexibility to offer solutions with standards unit that comes with built-in batteries and to provide extended backup time by adding more battery modules externally. Together with the power monitoring and management software, it could provide advance power management solution, allowing graceful, unattended, systematic shutdown and management of your valuables files and data during power failure and protection against power disturbances in most of the major operating platform.



Computer/
Server



Network
Peripherals



Telecom



Security



Key Features

- Online Double Conversion UPS
- Extendable runtime
- Management software solution
- SNMP / AS400 card (optional)
- Built-in Auto Bypass
- Full protection of OV, SC and OT
- Automatic fan speed adjustment
- Unity power factor
- Self-test

LineGuard X Series

1 / 2 / 3 / 6 / 10 KVA

UNINTERRUPTIBLE POWER SUPPLY





Matching Battery Module for extended backup time

To achieve long backup time, it is possible to connect multiple battery modules but the principles of “same battery, same type” should be strictly followed.

The nominal voltage of EBM are as follows:

1KVA : 36VDC, DIM: W145*D413*H224

2KVA : 72VDC, DIM: W145*D413*H224

3KVA : 96VDC, DIM: W191*D417*H322

6KVA : 192VDC, DIM: W191*D417*H322

10KVA: 192VDC, DIM: W191*D417*H322



Control and Communication

UPS includes several communication ports: RS232, EPO, SNMP, USB, AS400, RS485.

NOTE: Only one of card such as SNMP, AS400 and RS485 can be use at any time.

Only one of RS232 and USB (Optional) is available at any time.

SNMP Card (Optional)

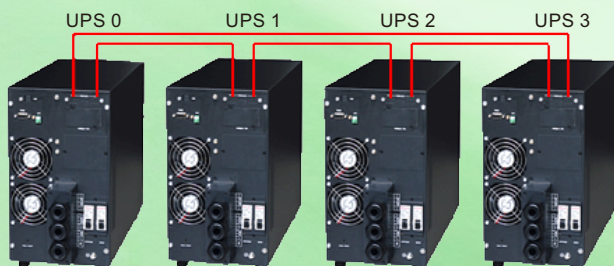
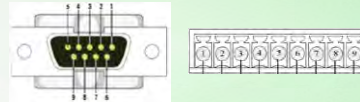
SNMP card is used to monitor the UPS via TCP/IP, user can check the UPS status, voltage and current on the internet.



AS400 Contact (Optional)

There are two types of dry contact for option: DB9, phoenix terminal.

Max output current for dry contact is 1A.



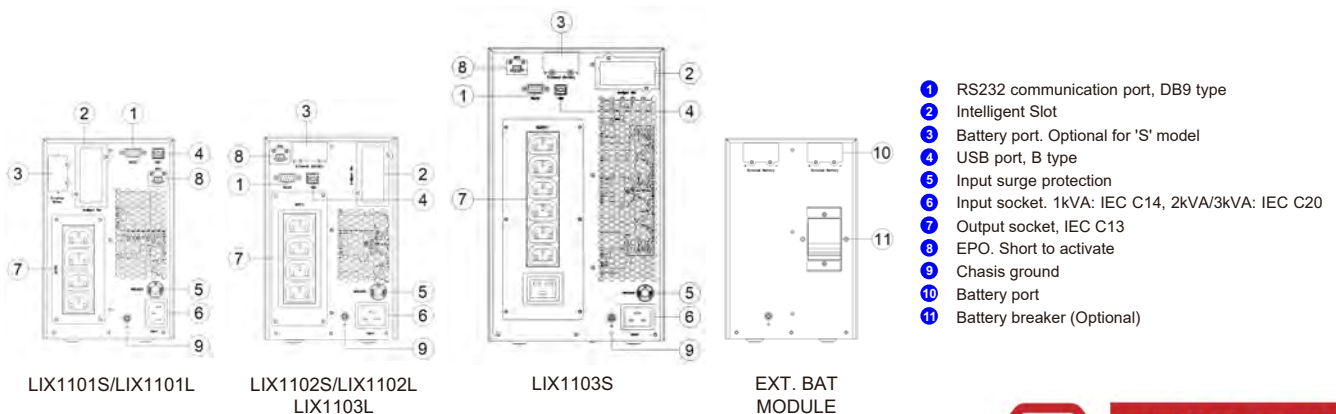
Parallel Port (Optional) for 6/10kVA UPS

As long as the UPS is equipped with parallel cables, up to 4 UPS can be connected in parallel to obtain output power sharing and power redundancy.



MODEL	LineGuard X Series					
Model	LIX1101S	LIX1101L	LIX1102S	LIX1102L	LIX1103S	LIX1103L
CAPACITY						
Capacity (VA)	1 kVA		2 kVA		3 kVA	
Capacity (W)	1 kW		2 kW		3 kW	
INPUT						
Nominal Voltage	230 VAC					
Voltage Range	110 to 300 VAC (100% load @ 176~300VAC; 176~100VAC linearly derate from 100% to 50% load)					
Frequency	40 - 70 Hz					
OUTPUT						
Nominal Voltage	208/220/230/240 VAC					
Voltage Range	+1% to -1%					
Frequency	LINE mode: 50/60 +6 Hz to -6 Hz, settable; BAT mode: 50/60 Hz +0.001 Hz to -0.001 Hz					
Wave Form	Pure Sinewave					
Transfer Time	LINE to BAT mode 0 ms; INV to BYP mode 4 ms sync; BYP to INV mode 4 ms syn; ECO to BAT mode 6 ms					
Total Harmonics Distortion (THDv)	≤ 3% with linear load; ≤ 5% with non-linear Load					
BATTERY						
Type	Valve-Regulated Maintenance Free Sealed Lead Acid					
Battery Rating	12V, 9AH	Dependable on	12V, 9AH	Dependable on	12V, 9AH	Dependable on
No. of Batteries	2	EXT. BAT	4	EXT. BAT	6	EXT. BAT
DC Voltage	24 VDC	36 VDC	48 VDC	72 VDC	72 VDC	96 VDC
Charging Current (max)	1A	1~12A	1A	1~12A	1A	1~12A
INDICATIONS						
LCD	Input & Output Voltage, Current, Frequency, Load level / Battery capacity, Voltage / Bypass / Fault					
AUDIBLE ALARMS						
Battery Mode	Beeping every 4 seconds					
Battery Low on DC Mode	Beeping every 2 seconds					
Fault / Overload	Continuous Beeping					
ENVIRONMENT						
Operating Temperature	0° to 40°C (32° to 104°F)					
Relative Humidity	0% to 90% Non-condensing					
Noise Level at 1 meter	< 50dB dependable on load level					
PROTECTION						
Overload Capability (Inverter)	102% ~ 110%: 30 min; 110% ~ 130%: 10 min; 130% ~ 150%: 30 s ; >150%: 200 ms					
Overload Capability (Battery)	102% ~ 110%: 1 min; 110% ~ 130%: 10 s; 130% ~ 150%: 3 s ; >150%: 200 ms					
COMMUNICATION						
Interface	Smart RS232 / USB with bundled software, EPO					
SNMP (Optional)	Power Management from SNMP Manager and Web Browser					
Dry Contact (Optional)	DB9 port, AS400					
PHYSICAL						
Dimensions (W x D x H) mm	145 x 282 x 224		145 x 405 x 224		190 x 406 x 322	145 x 405 x 224
Weight (kg)	9.2	6.9	15.4	6.2	24.5	8.7
Outlets	(4) C13		(4) C13		(4) C13 + (1) C19	
CERTIFICATIONS						
Safety Approvals	CE, RoHS					

Note: The product specification listed is subjected to change without notice.



MODEL	LineGuard X Series			
Model	LIX1106S	LIX1106L	LIX1110S	LIX1110L
CAPACITY				
Capacity (VA)	6 kVA		10 kVA	
Capacity (W)	6 kW		10 kW	
INPUT				
Nominal Voltage	230 VAC			
Voltage Range	110 to 300 VAC (100% load @ 176~300VAC; 176~100VAC linearly derate from 100% to 50% load)			
Frequency	40 - 70 Hz			
OUTPUT				
Nominal Voltage	208/220/230/240 VAC			
Voltage Range	+1% to -1%			
Frequency	50/60 Hz			
Wave Form	Pure Sinewave			
Transfer Time	LINE to BAT mode 0 ms; INV to BYP mode 0 ms sync; BYP to INV mode 0 ms; ECO to BAT mode 2 ms			
Total Harmonics Distortion (THD)	≤ 2% with Linear Load; ≤ 5% with non-linear Load			
BATTERY				
Type	Valve-Regulated Maintenance Free Sealed Lead Acid			
Battery Rating	12V, 9AH	Dependable on	12V, 9AH	Dependable on
No. of Batteries	16	EXT. BAT	16	EXT. BAT
DC Voltage	192 VDC			
Charging Current (max)	1A	1~12A	1A	1~12A
INDICATIONS				
LCD + LED	Input & Output Voltage, Current, Frequency, Load level / Battery capacity, Voltage / Bypass / Fault			
AUDIBLE ALARMS				
Battery Mode	Beeping every 4 seconds			
Battery Low on DC Mode	Beeping every 2 seconds			
Fault / Overload	Continuous Beeping			
ENVIRONMENT				
Operating Temperature	0° to 40°C (32° to 104°F)			
Relative Humidity	0% to 90% Non-condensing			
Noise Level at 1 meter	< 55dB dependable on load level			
PROTECTION				
Overload Capability (Inverter)	102% ~ 110%: 30 min; 110% ~ 130%: 10 min; 130% ~ 150%: 30 s ; >150%: 200 ms			
Overload Capability (Battery)	102% ~ 110%: 10 min; 110% ~ 130%: 1 min; 130% ~ 150%: 10 s ; >150%: 200 ms			
COMMUNICATION				
Interface	Smart RS232 / USB with bundled software, EPO			
SNMP (Optional)	Power Management from SNMP Manager and Web Browser			
Dry Contact (Optional)	DB9 port, AS400			
PHYSICAL				
Dimensions (W x D x H) mm	251 x 493 x 604	191 x 406 x 322	251 x 493 x 604	191 x 406 x 322
Weight (kg)	60	10.8	60.5	11.3
Outlets	Terminals			
CERTIFICATIONS				
Safety Approvals	CE, RoHS			

Note: The product specification listed is subjected to change without notice.

