



Trigger True Online double conversion **LineGuard RT** 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 is designed to be Rack/Tower convertible to suit most installation in offices, banks, small Data Centre, and continuously provide power protection to enterprise servers, networking equipment, telecommunication systems, security system, and many other critical applications.

LineGuard RT 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 feature**
- **Management software solution**
- **SNMP / Dry Contact relay card (optional)**
- **Built-in Auto Bypass**
- **Full protection of over-voltage, short-circuit and over-temperature**
- **Automatic fan speed adjustment**

LineGuard RT Series

1 / 2 / 3 / 6 / 10 KVA

UNINTERRUPTIBLE POWER SUPPLY



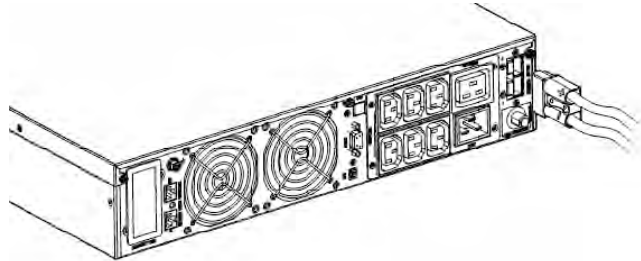
Battery Module for extended backup time

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 dimension and weight of external Battery Modules are as follows:

Capacity	Dimension (mm)	Weight (kg)
1KVA	W438 x D426 x H86 (2U)	18.5
2KVA	W438 x D426 x H86 (2U)	18.3
3KVA	W438 x D426 x H86 (2U)	23.0
6KVA	W440 x D715 x H86 (2U)	46.0
10KVA	W440 x D715 x H86 (2U)	50.0



Control and Communication

UPS includes several communication ports: RS232, EPO, SNMP card, USB, Dry Contact, RS485.

NOTE: Only one of SNMP card, Dry Contact and RS485 can be use at any time.

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

SNMP Card (Optional)

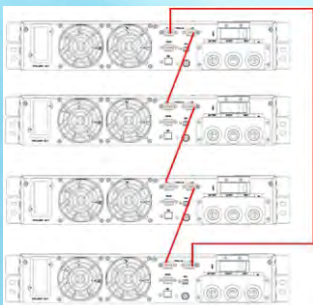
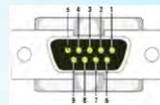
SNMP card is used to monitor the UPS via TCP/IP, user can check the UPS status, voltage and current on the internet.



Dry Contact (Optional)

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

Max output current for dry contact is 1A.



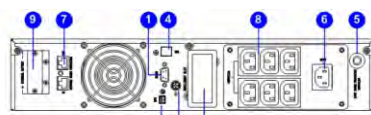
Parallel Port (Optional)

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.

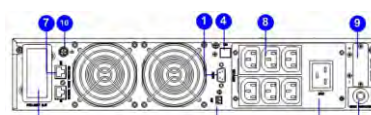


MODEL	LineGuard RT Series					
Model	LIG1101SRT	LIG1101LRT	LIG1102SRT	LIG1102LRT	LIG1103SRT	LIG1103LRT
CAPACITY						
Capacity (VA)	1 kVA		2 kVA		3 kVA	
Capacity (W)	0.9 kW		1.8 kW		2.7 kW	
INPUT						
Nominal Voltage	230 VAC					
Voltage Range	110 to 288 VAC					
Frequency	40 - 70 Hz					
OUTPUT						
Nominal Voltage	230 VAC					
Voltage Range	+1% to -1%					
Frequency	+5 Hz to -5 Hz					
Wave Form	Pure Sinewave					
Transfer Time	0 ms					
Total Harmonics Distortion (THD)	≤ 5.5% with Non-linear Load		≤ 5% with Non-linear Load		≤ 5% with Non-linear Load	
BATTERY						
Type	Valve-Regulated Maintenance Free Sealed Lead Acid					
Battery Rating	12V, 7AH	Dependable on external batteries	12V, 7AH	Dependable on external batteries	12V, 7AH	Dependable on external batteries
No. of Batteries	3		6		8	
DC Voltage	36 VDC		72 VDC		96 VDC	
Charging Current (max)	1A	8A or 4A	1A	8A or 4A	1A	8A or 4A
INDICATIONS						
LCD + LED	Input & Output Voltage, Current, Frequency, Load level / Battery capacity, Voltage / Bypass / Fault					
AUDIBLE ALARMS						
Battery Mode	Beeping every 2 minutes					
Battery Low on DC Mode	Beeping every 6 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)	105% ~ 130%: Transfer to bypass after 1 min					
Overload Capability (Bypass)	130% ~ 150%: Shutdown after 10 mins					
COMMUNICATION						
Interface	Smart RS232 with bundled software					
SNMP (Optional)	Power Management from SNMP Manager and Web Browser					
Dry Contact (Optional)	DB9 port, Dry Contact					
PHYSICAL						
Dimensions (W x D x H) mm	438x426x86(2U)	438x426x86(2U)	438x476x173(4U)	438x476x86(2U)	438x476x173(4U)	438x476x86(2U)
Weight (kg)	13.5	8	28	9.5	33	10.5
Outlets	(6) C13		(6) C13		(6) C13 + (1) C19	
CERTIFICATIONS						
Safety Approvals	CE, RoHS					

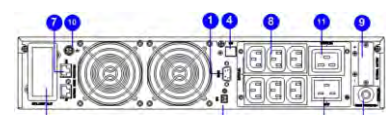
Note: The product specification listed is subjected to change without notice.



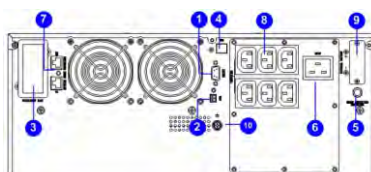
LIG1101SRT / LIG1101LRT



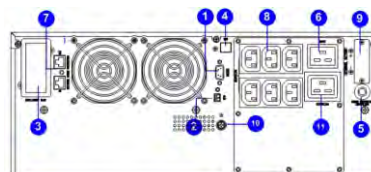
LIG1102LRT



LIG1103LRT



LIG1102SRT

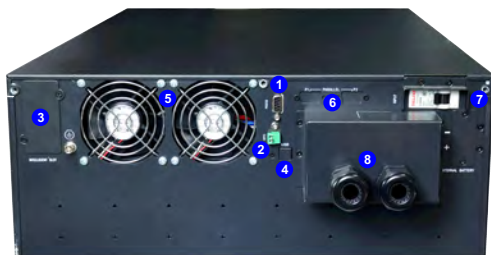


LIG1103SRT

- 1 RS232 communication port, DB9 type
- 2 EPO. Short to activate
- 3 Intelligent Slot
- 4 USB port, B type
- 5 Input surge protection slot
- 6 Input socket. 1kVA: IEC C14, 2kVA/3kVA: IEC C20
- 7 Network surge protection
- 8 Output socket, IEC C13
- 9 External battery port. Optional for standard model
- 10 Battery ground
- 11 Output socket. IEC C19

MODEL	LineGuard RT Series			
Model	LIG1106SRT	LIG1106LRT	LIG1110SRT	LIG1110LRT
CAPACITY				
Capacity (VA)	6 kVA		10 kVA	
Capacity (W)	6 kW		10 kW	
INPUT				
Nominal Voltage	230 VAC			
Voltage Range	110 to 288 VAC			
Frequency	40 - 70 Hz			
OUTPUT				
Nominal Voltage	230 VAC			
Voltage Range	+1% to -1%			
Frequency	+5 Hz to -5 Hz			
Wave Form	Pure Sinewave			
Transfer Time	0 ms			
Total Harmonics Distortion (THD)	≤ 1% with Linear Load, ≤ 5% with Non-linear Load			
BATTERY				
Type	Valve-Regulated Maintenance Free Sealed Lead Acid			
Battery Rating	12V, 7AH	Dependable on external batteries	12V, 9AH	Dependable on external batteries
No. of Batteries	16		16	
DC Voltage	192 VDC		192 VDC	
Charging Current (max)	1A, settable	5A max, settable	1A, settable	5A max, settable
INDICATIONS				
LCD + LED	Input & Output Voltage, Current, Frequency, Load level / Battery capacity, Voltage / Bypass / Fault			
AUDIBLE ALARMS				
Battery Mode	Beeping every 2 minutes			
Battery Low on DC Mode	Beeping every 6 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	< 58dB dependable on load level			
PROTECTION				
Overload Capability (Inverter)	111% ~ 125%: Transfer to bypass after 1 min			
Overload Capability (Bypass)	131% ~ 150%: Shutdown in 1 min			
COMMUNICATION				
Smart RS232	Smart RS232 with bundled software			
EPO	Normally closed contact			
SNMP (Optional)	Power Management from SNMP Manager and Web Browser			
Dry Contact (Optional)	DB9 port, Dry Contact			
PHYSICAL				
Dimensions (W x D x H) mm	440x660x172(4U)	440x550x86(2U)	440x660x172(4U)	440x550x86(2U)
Weight (kg)	58	16	62	18
Outlets	Terminal			
CERTIFICATIONS				
Safety Approvals	CE, RoHS			

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



LIG1106SRT / LIG1110SRT



LIG1106LRT / LIG1110LRT

- 1 RS232 communication port, DB9 type
- 2 EPO. Short to activate
- 3 Intelligent Slot
- 4 USB port, B type
- 5 Fans
- 6 Parallel connection port
- 7 Bypass breaker
- 8 Cable entry