

Trigger True Online double conversion **LineGuard** Series UPS is rated at 1kVA, 2kVA, 3kVA, 6kVA, 10kVA, 15KVA and 20KVA equipped to provide clean and quality backup power supply to the equipment supported.

It 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 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.





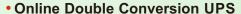




omputer/ Netv Server Perip

Network Peripherals

Key Features



- 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 Series

1 / 2 / 3 / 6 / 10 / 15 / 20 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 nominal voltage of external Battery Modules are as follows:

1KVA: 36VDC 2KVA: 72VDC 3KVA: 96VDC 6KVA: 192VDC 10KVA: 192VDC 15KVA: 192VDC 20KVA: 192 VDC



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.

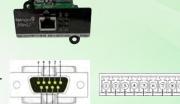
Only one of RS232 and USB (Optional) is available at any time.

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.

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)

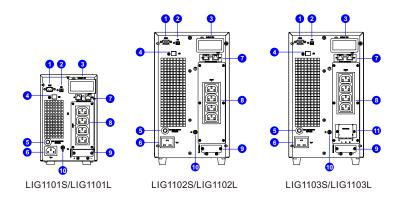
As long as the UPS is equipped with parallel cables, up to 4 UPS can be connected in parallel to obtain output power sharing and power redundancy.





MODEL	LineGuard Series							
Model	LIG1101S	LIG1101L	LIG1102S	LIG1102L	LIG1103S	LIG1103L		
CAPACITY								
Capacity (VA)	1 kVA 2 kVA			«VΑ	3 kVA			
Capacity (W)	0.9	0.9 kW		1.8 kW		7 kW		
INPUT								
Nominal Voltage			230 \	VAC				
Voltage Range	110 to 288 VAC (100% load @ >176VAC, 90% load @ >160VAC, 80% load @ >140VAC, 60% load @ >110VAC)							
Frequency	40 - 70 Hz							
OUTPUT								
Nominal Voltage			220/230/2	240 VAC				
Voltage Range	+1% to -1%							
Frequency	50/60 Hz							
Wave Form	Pure Sinewave							
Transfer Time	0 ms							
Total Harmonics Distortion (THD)	≤ 5.5% with N	≤ 5.5% with Non-linear Load ≤ 5% with Non-linear Load ≤ 5% with Non-linear Load						
BATTERY	-							
Туре		Valve-Re	gulated Maintena	nce Free Sealed L	ead Acid			
Battery Rating	12V, 7AH	Dependable on	12V, 7AH	Dependable on	12V, 7AH	Dependable on		
No. of Batteries	3	external batteries	6	external batteries	8	external batteries		
DC Voltage	36	VDC	72	VDC	96	VDC		
Charging Current (max)	1A	8A	1A	8A	1A	8A		
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	< 43dB @	< 70% load	< 45dB @	< 70% load	< 45dB @ < 70% load			
PROTECTION								
Overload Capability (Inverter)	105% ~ 130%: Transfer to bypass after 1 min							
Overload Capability (Battery)	105% ~ 130%: Shutdown after 10 secs							
COMMUNICATION								
Interface	Smart RS232 with bundled software, EPO							
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	144 x 353 x 222		190 x 374 x 336		190 x 427 x 336			
Weight (kg)	10.5	5	21	8.5	24.5	9.5		
Outlets	(4) (C13	(4)	C13	(4) C13	+ Terminal		
CERTIFICATIONS			. ,					
Safety Approvals	CE, RoHS (Optional)							
	CE, Norto (Optional)							

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

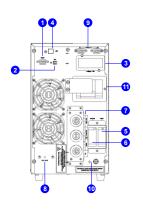


- 1 RS232 communication port, DB9 type
- 2 EPO. Short to activate
- 3 Intelligent Slot
- 4 USB port, B type
- 5 Input surge protection slot
- Input socket. 1kVA: IEC C14, 2kVA/3kVA: IEC C20
- Network surge protection
- 8 Output socket, IEC C13
- 9 External battery port. Optional for standard model
-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

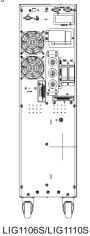


MODEL	LineGuard Series									
Model	LIG1106S	LIG1106L	LIG1110S	LIG1110L	LIG1115L	LIG1120L				
CAPACITY										
Capacity (VA)	6 k	6 kVA 10 kVA 15 kVA 20 kVA								
Capacity (W)	6 kW		10 kW		15 kW	20 kW				
INPUT										
Nominal Voltage			230 V	AC						
Voltage Range	110 to 288 V	110 to 288 VAC (100% load @ >176VAC, 90% load @ >160VAC, 80% load @ >140VAC, 60% load @ >110VAC)								
Frequency	40 - 70 Hz									
OUTPUT										
Nominal Voltage	220/230/240 VAC									
Voltage Range	+1% to -1%									
Frequency	50/60 Hz									
Wave Form	Pure Sinewave									
Transfer Time	0 ms									
Total Harmonics Distortion (THD)	≤ 1% with Linear Load; ≤ 5% with Non-linear Load									
BATTERY										
Туре	Valve-Regulated Maintenance Free Sealed Lead Acid									
Battery Rating	12V, 7AH	Dependable on	12V, 9AH		Dependable on					
No. of Batteries	16	external batteries	16		external batteries					
DC Voltage		192 VDC								
Charging Current (max)	1A 5A 1A 5A									
INDICATIONS										
LCD + LED	Input & Output Voltage, Current, Frequency, Load level / Battery capacity, Voltage / Bypass / Fault									
AUDIBLE ALARMS		<u> </u>								
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	< 52dB @ < 60% load; <56dB @ >60% load					iB				
PROTECTION										
Overload Capability (Inverter)		125%: Transfer to bypass after 1 min 111% to 125%: Transfer to bypass after 1 min								
Overload Capability (Battery)						itdown in 1 min				
COMMUNICATION	1									
Interface	Smart RS232 with bundled software, EPO									
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	190 x 426 x 705	190 x 426 x 336	190 x 485 x 705	190 x 485 x 336	190 x 485	5 x 480				
Weight (kg)	56	14	60	16	30					
Outlets		Terminals								
CERTIFICATIONS			·							
Safety Approvals	CE, RoHS (Optional)									
	CE, NOTIO (Optional)									

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



LIG1106L/LIG1110L



- 1 RS232 communication port, DB9 type
- EPO. Normally Closed
- Intelligent Slot
- USB port, B type
- Input breaker: surge protection
- Bypass breaker: surge protection
 Terminals for AC in/out and battery
- Cold start button
- Parallel port (Optional)
- Battery ground
- Reserved slot for manual bypass (Optional)

