



Giant Industrial Series-Tower

PRO63100-L-220, PRO63100-L-384, PRO63300-L-384



Electro-Medical Device



PLC Control Systems



Emergency Alarm Devices



Industrial Automation



Building Management System



Prolink Giant Industrial Series are single-phase and three-phase output UPS systems which apply a true online double-conversion technology. Double conversion between input/output, battery and bypass are totally isolated power line noise, spike and transients, keeping power failure away from critical loads. It is designed to deliver clean and high-quality electrical power for electrical loads. All Giant Industrial Series UPS systems accept dual-mains inputs.

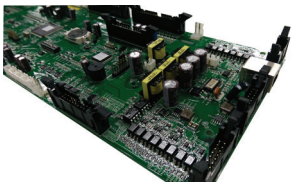
Key Features

• Robust electrical performance

This UPS is designed to accept wide input voltage and frequency range to cope with the worst utility conditions. It can eliminate harmful distortion from utility power and withstand all kinds of severe impacts from various loads. It's capable to support heavy duty equipment, production equipment and DCS (Distributed Control System) system.

• Screwless cabinet design and fully coating PCBAs to withstand harsh environment

The outside cabinet is designed only with locks without any screws and all PCBAs are coated for anti-moisture, anti-electric leakage, anti-dust and anti-corrosion. Its robust design is suitable for harsh environment with high temperature, high humidity, dense dust, salt, or fierce vibration.



• Front access makes maintenance and replacement easy



It's considerate to allow easy access to all of the electronic cards and power components in the unit through the front panel for further maintenance and replacement.

• High short-circuit and overload

This UPS is built-in high short-circuit protection. Once short circuit occurs, this mechanism will be activated. The load will stay protected and the UPS will remain intact. High overload protection supports 100~110% load continuously for 60 minutes and 110~150% load for up to 10 minutes.

• Monitoring features

Users can easily monitor and access to their UPS status from a comprehensive LCD display. Potential free dry contacts are provided for UPS alarm monitoring via hard wire. The UPS systems have USB and RS-485 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters and relay contact cards. SNMP option is also available for power management via SNMP manager and web browser.

• Adjustable battery number design

The number of connected batteries can be adjusted flexibly based on different power demands. External standalone type battery banks can be connected for longer backup requirements.

• Unique ventilation design for effective heat dissipation

Unique ventilation design allows heat to rise by the process of convection. Therefore, the UPS cabinets can be added in parallel side by side for space-saving.



• Parallel capability

Up to 4 units in parallel can be operated to increase system capacity as well as operation reliability for power redundancy.

• Isolation Transformer at the output

Galvanic isolation transformer is provided for electrical isolation between UPS output and load. It is also used to protect against electric shock, to suppress electrical noise in sensitive devices.

• Available capacity range

- Giant Industrial series (220VDC) (3P/1P) series is available in models ranging from 10kVA to 120kVA.

- Giant Industrial series (384VDC) (3P/1P) series is available in models ranging from 10kVA to 120kVA.

- Giant Industrial series (384VDC) (3P/3P) series is available in models ranging from 10kVA to 400kVA.

Specifications

MODEL	PRO63110 -L-220	PRO63115 -L-220	PRO63120 -L-220	PRO63130 -L-220	PRO63140 -L-220	PRO63150 -L-220	PRO63160 -L-220	PRO63180 -L-220	PRO631100 -L-220	PRO631120 -L-220	
CAPACITY	10KVA/8KW	15KVA/12KW	20KVA/16KW	30KVA/24KW	40KVA/32KW	50KVA/40KW	60KVA/48KW	80KVA/64KW	100KVA/80KW	120KVA/96KW	
INPUT											
Nominal Voltage	3 x 380VAC/400VAC/415VAC (3Ph or 3Ph+N)										
Acceptable Voltage Range	304VAC ~ 456VAC										
Frequency	50/60Hz ±10%										
OUTPUT											
Nominal Voltage	220VAC/230VAC/240VAC (Selectable)										
Connection Type	Hardwire 3-wire (1Ph+N+G)										
Waveform	Pure Sinewave										
Output Voltage Stability	Steady state	±1%									
	Transient state	±5%									
Frequency	50/60Hz										
Frequency Stability	± 1%										
Frequency Synchronisation Range	± 5Hz (Equal to bypass working range)										
Frequency Synchronisation Speed	1~2 Hz/s										
Power Factor	0.8										
Crest Factor	3:1										
Total Harmonic Distortion (THDv)	<2% (Linear Load) <5% (Non-linear Load)										
Dynamic in-rush Voltage Range	0%~>100%~>0% (R Load) <±5% : 20%~>100%~>20% (R Load) ±3%										
Dynamic Recovery Time (III Grade)	0%~100% RCD load : <60 ms recover to 90% of nominal voltage										
Phase Displacement	120° ±1% (balanced load) 120° ±2% (imbalances 50% of the load)										
Transfer Time	0 ms										
Overload Capability	0% ~ 110% continuous running; 110% ~ 150% for 10 min~1 min; >160% for 200ms										
Short-circuit Capability	60~100ms										
Transient Response Time	< 5ms										
BYPASS											
Connection Type	Hardwire 3-wire (1Ph+N+G)										
Input Voltage Range	220VAC ± 25%										
Overload Capability	1.5 In~1.8 In 1h~30s										
Short-circuit Capability	1.8 In ~ >2.0 In 30s~200ms										
SYSTEM											
Efficiency (At Linear Load & 270VDC)	90%	90%	91%	91%	91%	91%	91%	92%	92%	92%	
ECO Mode (Non-parallel models)	Yes										
EPO Function	Yes										
BATTERY & CHARGER											
Rectifier	Type	6 pulse			6 pulse or 12 pulse				12 pulse		
	Rated output voltage	220 VDC									
	Charger voltage	216VDC ~ 243VDC (Adjustable)									
Battery	Charging current(max)	20A	20A	20A	20A	40A	40A	40A	40A	40A	40A
	Type	Support VRLA Battery									
	Numbers	18 pcs									
	Reverse Diode	Yes									
Cold Start	Yes										
PHYSICAL											
IP Protection	IP20 (Default), IP21/IP31 (Option)										
Dimensions, DxWxH (mm)	800 x 800 x 1800					800 x 1200 x 1800			800 x 1600 x 1800		
Net Weight (Kgs)	365	386	430	645	680	810	960	1160	1300	1580	
ENVIRONMENT											
Operating Temperature	0~ 35°C continuous running, 40°C 8-hour running at nominal input voltage, recharging batteries and no overload, 45°C derating to 85% with linear load										
Operating Humidity	0~90% (non-condensing)										
Noise Level	Less than 70dB @ 1 Meter										
MANAGEMENT											
Modbus RS-232/RS485	Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC										
Dry Contacts	6 outputs and 2 inputs										
Optional SNMP	Power management from SNMP manager and web browser										
COMPLIANCE STANDARDS											
Safety	IEC/EN 62040-1										
EMC	IEC/EN 62040-2										
Performance	IEC/EN 62040-3										

Specifications

MODEL	PRO63110 -L-384	PRO63120 -L-384	PRO63130 -L-384	PRO63140 -L-384	PRO63160 -L-384	PRO63180 -L-384	PRO631100 -L-384	PRO631120 -L-384
CAPACITY	10KVA / 8KW	20KVA / 16KW	30KVA / 24KW	40KVA / 32KW	60KVA / 48KW	80KVA / 64KW	100KVA / 80KW	120KVA / 96KW
INPUT								
Nominal Voltage	3 x 380VAC/400VAC/415VAC (3Ph or 3Ph+N)							
Acceptable Voltage Range	304VAC ~ 456VAC							
Frequency	50/60Hz ±10%							
OUTPUT								
Nominal Voltage	220VAC/230VAC/240VAC (Selectable)							
Connection Type	Hardwire 3-wire (1Ph+N+G)							
Waveform	Pure Sinewave							
Output Voltage Stability	Steady state	± 1%						
	Transient state	± 5%						
Frequency	50/60Hz							
Frequency Stability	± 1%							
Frequency Synchronisation Range	± 5Hz (Equal to bypass working range)							
Frequency Synchronisation Speed	1~2 Hz/s							
Power Factor	0.8							
Crest Factor	3:1							
Total Harmonic Distortion (THDv)	<2% (Linear Load) <4% (Non-linear Load)							
Dynamic in-rush Voltage Range	0%~>100%~>0% (R Load) <±5% : 20%~>100%~>20% (R Load) ±3%							
Dynamic Recovery Time (III Grade)	0%~100% RCD load : <60 ms recover to 90% of nominal voltage							
Phase Displacement	120° ±1% (balanced load) 120° ±2% (imbalances 50% of the load)							
Transfer Time	0 ms							
Overload Capability	0% ~ 110% continuous running; 110% ~ 150% for 10 min~1 min; >160% for 200ms							
Short-circuit Capability	60~100ms							
Transient Response Time	< 5ms							
BYPASS								
Connection Type	Hardwire 3-wire (1Ph+N+G)							
Input Voltage Range	220VAC ± 25%							
Overload Capability	1.5 In~1.8 In 1h~30s							
Short-circuit Capability	1.8 In ~ >2.0 In 30s~200ms							
SYSTEM								
Efficiency (At Linear Load)	≥ 90%							
ECO Mode (Non-parallel models)	Yes							
EPO Function	Yes							
BATTERY & CHARGER								
Rectifier	Type	6 pulse						
	Rated output voltage	384 VDC						
	Charger voltage	290VDC ~ 435VDC (Adjustable)						
	Charging current(max)	20A	40A	40A	40A	40A	40A	40A
Battery	Type	Support VRLA Battery						
	Numbers	32 Pcs (29 ~ 32 pcs adjustable)						
	Reverse Diode	Yes						
	Cold Start	Yes						
PHYSICAL								
IP Protection	IP20 (Default), IP21/IP31 (Option)							
Dimensions, D x W x H (mm)	800 x 800 x 1800						800 x 1200 x 1800	
Net Weight (Kgs)	360	400	430	490	610	680	900	920
ENVIRONMENT								
Operating Temperature	0~ 35°C continuous running, 40°C 8-hour running at nominal input voltage, recharging batteries and no overload, 45°C derating to 85% with linear load							
Operating Humidity	0~90% (non-condensing)							
Noise Level	Less than 70dB @ 1 Meter							
MANAGEMENT								
Modbus RS-232/RS485	Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC							
Dry Contacts	6 outputs and 2 inputs							
Optional SNMP	Power management from SNMP manager and web browser							
COMPLIANCE STANDARDS								
Safety	IEC/EN 62040-1							
EMC	IEC/EN 62040-2							
Performance	IEC/EN 62040-3							

Product specifications are subject to change without further notice

Specifications

MODEL	PRO63310 -L-384	PRO63315 -L-384	PRO63320 -L-384	PRO63330 -L-384	PRO63340 -L-384	PRO63360 -L-384	PRO63380 -L-384	PRO633100 -L-384	PRO633120 -L-384	PRO633160 -L-384	PRO633200 -L-384	PRO633250 -L-384	PRO633300 -L-384	PRO633400 -L-384	
CAPACITY	10KVA/ 8KW	15KVA/ 12KW	20KVA/ 16KW	30KVA/ 24KW	40KVA/ 32KW	60KVA/ 48KW	80KVA/ 64KW	100KVA/ 80KW	120KVA/ 96KW	160KVA/ 128KW	200KVA/ 160KW	250KVA/ 200KW	300KVA/ 240KW	400KVA/ 320KW	
INPUT															
Nominal Voltage	3 x 380VAC/400VAC/415VAC (3Ph or 3Ph+N)														
Acceptable Voltage Range	304VAC ~ 456VAC														
Frequency	50/60Hz ±10%														
OUTPUT															
Nominal Voltage	3 x 380VAC/400VAC/415VAC (Selectable)														
Connection Type	Hardwire 5-wire (3Ph+N+G)														
Waveform	Pure Sinewave														
Output Voltage Stability	Steady state	±1%													
	Transient state	±5%													
Frequency	50/60Hz														
Frequency Stability	± 1%														
Frequency Synchronisation Range	± 5Hz (Equal to bypass working range)														
Frequency Synchronisation Speed	1~2 Hz/s														
Power Factor	0.8														
Crest Factor	3:1														
Total Harmonic Distortion (THDv)	< 2% (Linear Load) < 4% (Non-linear Load)														
Dynamic in-rush Voltage Range	0%~>100%>0% (R Load) < ±5% ; 20%~>100%>20% (R Load) ±3%														
Dynamic Recovery Time(III Grade)	0%~100% RCD load : < 60 ms recover to 90% of nominal voltage														
Phase Displacement	120° ±1% (balanced load) 120° ±2% (imbalance 50% of the load)														
Transfer Time	0 ms														
Overload Capability	0% ~ 110% continuous running; 110% ~ 150% for 10 min~1 min; >160% for 200ms														
Short-circuit Capability	60~100ms														
Transient Response Time	< 5ms														
BYPASS															
Connection Type	Hardwire 5-wire (3Ph+N+G)														
Bypass Voltage	3 x 380VAC/400VAC/415VAC (3Ph+N)														
Overload Capability	1.5 In~1.8 In 1h~30s														
Short-circuit Capability	1.8 In ~ >2.0 In 30s~200ms														
SYSTEM															
Efficiency(At Linear Load)	90%	90%	91%	91%	91%	91%	92%	92%	92%	92%	92%	92%	93%	93%	
ECO Mode (Non-parallel models)	Yes														
EPO Function	Yes														
BATTERY & CHARGER															
Rectifier	Type	6 pulse						6 pulse or 12 pulse				12 Pulse			
	Rated output voltage	384 VDC													
	Charger voltage	395VDC ~ 435VDC (Adjustable)													
	Charging current(max)	Default 10A, Maximum = Capacity / Battery Voltage				Default 10A, Maximum 40A									
Battery	Type	Support VRLA Battery													
	Numbers	32 Pcs (29 ~ 32 pcs adjustable)													
	Reverse Diode	No													
	Cold Start	Yes													
PHYSICAL															
IP Protection	IP20 (Default), IP21/IP31 (Option)														
Dimensions, D x W x H (mm)	800 x 800 x 1800						800 x 1200 x 1800			800 x 1600 x 1800			850x1630 x1900	900x 1800 x 1900	
Net Weight (Kgs)	290	312	349	385	427	508	563	760	850	1120	1390	1750	2100	2500	
ENVIRONMENT															
Operating Temperature	0~ 35°C continuous running, 40°C 8-hour running at nominal input voltage, recharging batteries and no overload, 45°C derating to 85% with linear load														
Humidity	0~90% (non-condensing)														
Noise Level	Less than 70dB @ 1 Meter												Less than 72dB @ 1 Meter		
MANAGEMENT															
Modbus RS-232/RS485	Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC														
Dry Contacts	6 outputs and 2 inputs														
Optional SNMP	Power management from SNMP manager and web browser														
COMPLIANCE STANDARDS															
Safety	IEC/EN 62040-1														
EMC	IEC/EN 62040-2														
Performance	IEC/EN 62040-3														

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Ver1.0_17.06.2021

Authorised Distributor/ Reseller:

Compatible with:



System Requirements:
Windows XP/Vista/7/8/10, Mac, Linux