

Galleon LIO RT 1-6KVA



- **External Lithium-ion battery pack**
Save at least half space and 3x longer life than VRLA batteries
- **Modular design easy for expansion**
Extend backup time by adding more battery pack
- **Rack/Tower convertible**
Provides installation flexibility to suit rack installation or tower standing
- **Battery Management System (BMS)**
Built in BMS communication port for battery mangement

Galleon LIO Lithium Battery Rack/Tower Online UPS Selection Guide

UPS MODEL	GLIO1000L	GLIO2000L	GLIO3000L	GLIO6000L
OUTPUT				
Topology	Online	Online	Online	Online
Output Power Capacity (Watts) @ input voltage	900W	1800W	2700W	6000W
Output Power Capacity (VA)	1000 VA	2000 VA	3000 VA	6000 VA
Output power factor	0.9	0.9	0.9	1
Nominal Output Voltage	230V			
Other Programmable Voltage	220, 240 V			
Frequency Range (Sync.mode)	57~63Hz or 47~53Hz			56~64Hz or 46~54Hz
Output Voltage Regulation	± 1%			
Frequency Range (Batt. Mode)	50Hz /60Hz± 0.1Hz			
Transfer Time (AC to DC)	Zero			
Transfer Time (line mode to Bypass mode)	< 4 ms(typical)			Zero
Waveform Type	Pure Sinewave			
Total Output Conenctions	(6) IEC 320 C13	(6) IEC 320 C13	(6) IEC 320 C13 + (1) IEC C19	Termianl
Efficiency (AC Mode),Max	90%	90%	90%	94%
Efficiency (Battery Mode), Max	84%	85%	86%	90%
Harmonic Distortion (Linear/Non-Linear)	<3%/<6%			<1%/<4%
Charging current	5.3A	10A	10A(if O/P load>95%,CHG current derate to 6A)	10,20,30(20A defatul)
Overload (Line mode)	<35°C 105-125% 2min;125-140% 30sec; >140% immediatly			100~105%, Continue 105-125% 10min : 125-150% 1min : >150% immediatly
Overload (Battery mode)	<35 : 105-120% 1min : >120% immediatly			100-110% 30sec : 110-130% 10sec : >130% immediatly
Current Crest Ratio	3:1			
INPUT				
Nominal Input Voltage	230V			
Input Connection	IEC 320 C14	IEC 320 C20	IEC 320 C20	Termianl
Input Frequency Range (V)	40Hz ~ 70 Hz			50Hz/60Hz±4Hz (Normal mode) 40~70Hz(Generator mode)
Input Voltage Range (V)**	160Vac - 300 Vac @100% load Derating to 60% @110V input.			176Vac - 300 Vac @100% load Derating to 60% @110V input.
Power Factor	≥ 0.95			≥ 0.99
Input Protection	Input Circuit Breaker			

UPS MODEL	GLIO1000L		GLIO2000L		GLIO3000L		GLIO6000L
BATTERY PACK MODEL	LIO 4805	LIO 4810	LIO 4805	LIO 4810	LIO 4805	LIO 4810	LIO 4810
BATTERY PACK							
Battery Type & Number / Voltage (VDC)	LiFePO4/48V						
Battery Capacity	50AH	100AH	50AH	100AH	50AH	100AH	100AH
Continuous Discharge Current	75A	150A	75A	150A	75A	150A	150A
Typical Recharge Time (90%)	9 hrs	18 hrs	5 hrs	10 hrs	5 hrs	10 hrs	3 hrs @ 30A, 5 hrs @ 20A, 10 hrs @ 10A
Max Charging Current	50A	100A	50A	100A	50A	100A	100A
Charging Voltage	52.5V						
Communication Port	RS485(RJ45) for UPS and Pack ; CANbus(RJ11) for Pack and Pack						
Dimension, D x W x H (mm), ±3mm	676 x 438 x 86	676 x 438 x 129	676 x 438 x 86	676 x 438 x 129	676 x 438 x 86	676 x 438 x 129	676 x 438 x 129
Net Weight (kgs)	31.6	44.8	31.6	44.8	31.6	44.8	44.8
Regulatory Approvals	IEC 62619, IEC 60730-1, UN38.3						
RUNTIME							
Half Load (Watts) @ 25°C	450		900		1350		3000
Half Load Runtime @ 25°C	229 min	460 min	115 min	230 min	77 min	160min	70min
Full Load (Watts) @ 25°C	900		1800		2700		6000
Full Load Runtime @ 25°C	117min	235 min	60min	120 min	40min	80 min	34min
UPS PHYSICAL (WITH FOOT & PANEL)							
Dimension, D x W x H (mm)	452 x 438 x 86		502 x 438 x 86		502 x 438 x 86		515 x 438 x 86
Net Weight (kgs)	8.0		8.8		10.0		19.7
Rack/Tower convertible	YES						
FEATURES							
LED	V						
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators						
EPO	YES						
USB Communication Port	V						
DB-9 RS-232	Supports Windows® family OS						
Replaceable Battery	V						
Input Breaker	V						
Intelligent Slot	V						
Battery Connector	V						
PROTECTION							
Surge Energy Rating (Joules)	945J						
ENVIRONMENT							
Humidity	0-95% (non-condensing)						
Noise Level	Less than 50dBA @ 1 Meter(avg)						Less than 55dBA @ 1 Meter(avg)
Standard							
Regulatory Approvals	CE						

*Output load will be limited by current of input power cord due to safety regulation. 1kVA: 10A max, 2kVA/3kVA: 16A max. Product specifications are subject to change without further notice.

48V 50Ah & 100Ah Lithium battery Rack & System



- Modular design
- Life cycle : 8000 cycles at 25°C, 60% DoD
- 1.5C continuous discharging current
- High surge discharging current up to 2C
- Wide operating voltage range from 34.5 to 52.5Vdc
- Flexible front and Rear installation
- Communication protocols: RS485
- Easy capacity extension by paralleled
- Aluminum case LiFeO4 for cells, more safety and stable

Rack Mounted Lithium Battery Pack Selection Guide

MODEL	LIO-4805	LIO-4810
CAPACITY	2400Wh	4800Wh
PARAMETERS		
Nominal Voltage	48 VDC	
Full Charge Voltage (FC)	52.5V	
Full Discharge Voltage (FD)	34.5V	
Typical Capacity	50Ah	100Ah
Max Continuous Discharging Current	75A	150A
Max Peak Discharging Current	100A	180A
Battery Connector Max current	75A	75A+75A
Protection	BMS, Breaker	
Charge Voltage	52.5 ± 0.1V	
Maximum Charge Current	50A (1C)	100 A (1C)
Standard Charge Method	0.2C CC (Constant current) charge to FC, CV (Constant voltage FC) charge till charge current decline to <0.05C	
Inner Resistance	<20m ohm	
PHYSICAL		
Dimension, D x W x H (mm)	676 x 438 x 86	676 x 438 x 129
Net Weight (kgs)	31.6	44.8
INDICATORS		
LED	Battery Status, Battery level, Battery fault, Alarm	
ENVIRONMENT		
Operating Environment	Charge : 0°C~50 °C	
	Discharge: 0°C~50 °C	
Storage Temperature Range °C (At 50% SOC and specified temp, recoverable capacity in % vs time / 50%)	< 18 months: -20°C~25 °C	
	< 3 months: 25°C~45 °C	
	< 1 months: 45°C~60 °C	
	20°C ± 5 °C is the recommended storage temperature	
MANAGEMENT		
Communication	RS485 port (RJ45), extension port (RJ11)	
Certifications	UN38.3, IEC 62619	
Design Life	>10 years @ 25 °C	
Lifecycle	> 4500 @ 25 °C	

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