

LIM50EL-12 LITHIUM BATTERY 480V UPS CABINET

Creating the Future of Energy

GS YUASA: A GLOBAL LEADER IN ENERGY STORAGE TECHNOLOGIES

FOR OVER 100 YEARS

FEATURES AND BENEFITS

LONG SERVICE LIFE

- 90% retained capacity at 15th year at 25°C
- More than 3x service life of lead

SAFETY

- Inherently safe and proven LMO chemistry
- Isolated compartments for battery modules, high and low voltage controls

SPATIAL

- Smallest footprint Lithium UPS solution available
- Over 60% floorspace savings compared to lead
- Over 70% weight savings compared to lead

REGULATORY

- UL1973—4Q2023
- UL9540A— 4Q2023

OTHER

- Cells and Modules
 Designed and
 Manufactured In Japan
- TAA Compliant







LIM50EL-12 LITHIUM **480V UPS CABINET**

Cabinet Me	odule Configu	ration (Parallel/	Series)	
(Parallel/Series)	2P12S	1P12S	2P11S	1P11S
ELECTRICAL				
Capacity, kWh	54.7	27.4	50.2	25.1
Power, kW	54.7	27.4	50.2	25.1
Nominal Vdc	480			
Standard Charging Current, A	100	50	100	50
Standard Full Charging Voltage, Vdc	590.4	590.4	541.2	541.2
Maximum Charging Current, A	250	125	250	125
Maximum Charging Voltage, Vdc	590.4		541.2	
Maximum Discharge Current, A (Continuous)	400	200	400	200
Maximum Discharge Current, A (60 seconds)	600	300	600	300
Maximum Discharge Power For UPS Application, kW CP Continuous	333.5	166.7	305.7	152.8
Discharge End Point Voltage, Vdc	396	396	363	363
Communications	RS485, CAN2.0B, Modbus/TCP, Dry contacts			
PHYSICAL				
Dimensions, in. (W*D*H*)	31*33*80*	22*33*80*	31*33*80*	22*33*80*
Weight, Lbs.	1900*	950*	1780*	890*
Cable Entry Point	Тор			
ENVIRONMENTAL				
Recommended Operating Temperature	0°C to 50°C (32°F to 122°F)			
Humidity, RH	10% to 90% without condensation			
Altitude, Ft.	6,560 Maximum			
Human Machine Interface	Touch Panel on Master Cabinet			
Optional Peripheral Modules	1+1 Redundant Domain LIBM (BMS)			
Certifications (In Process)	UL1973, UL9540A			

^{*}Approximate

ABOUT GS YUASA ENERGY SOLUTIONS, INC.

GS Yuasa has maintained a strong leadership position in lithium-ion technology since the mid-1990s when we first delivered cells for handheld devices. Our commitment to innovation has driven our expansion into various industrial and space/aerospace applications, including the International SpaceStation. Building upon our highly reliable technology, we introduced the LIM (Lithium Industrial Module) Industrial Battery Series, which has been in mass production since 2002 and continues to serve customers worldwide as a trusted energy storage solution. LIM cells and modules are designed and manufactured in Japan, ensuring the highest quality standards. Our proven LIM50-12 module is now available as a UPS Battery System configuration for mission critical data center applications.



