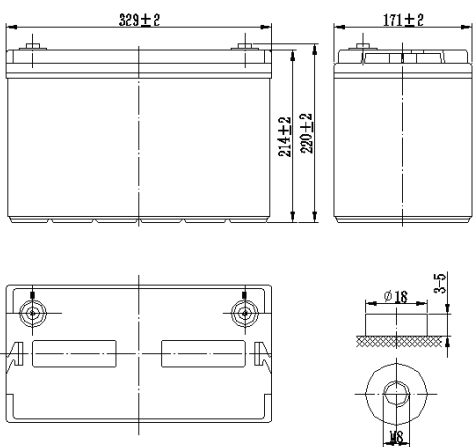


## VALVE REGULATED GEL LEAD-ACID RECHARGEABLE BATTERY

**FL121000G**

**(12V100Ah/10hr)**



The rechargeable GEL batteries are lead-lead dioxide systems. Which are new products developed success base on SLA batteries. In contrast with AGM batteries, electrolyte of GEL batteries is composed of micro millimeter SiO<sub>2</sub> and H<sub>2</sub>SO<sub>4</sub> gelled electrolyte is reversibility and steady three-dimensional network structure; Especial grid alloy and Gel technology provides for a more robust and longer battery life than traditional technologies and makes it ideally suited to mission critical and safety applications in solar, telecommunications, transport, power generation, military and other applications.

### Application

- **Solar and Wind Power System**
- **Medical Equipment**
- **Electric Power Vehicles/Toys**
- **Power tools**
- **Communication Equipment**
- **Control Equipment**

### General Features

- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers (UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof .
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
- Flexibility design for multiple install positions.

### CONSTRUCTION

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Gelled acid

### TECHNOLOGY PARAMETER

Battery model	FL121000G			
Designed Floating Life	10 Years			
Capacity (25°C)	10HR(10.0A, 10.8V)	5HR(16.3A, 10.5V)	1HR(64.2A, 9.60V)	
	100Ah	81.5Ah	64.2Ah	
Dimensions	Length	Width	Height	Total Height
	329±2mm	171±2mm	214±2mm	220±2mm
Approx. weight (±3%)	30.5 Kg (67.24 lbs)			
Internal resistance	Full charged at 25°C: Approx. 6.8mOhms			
Self discharge	3% of capacity declined per month at 25°C (average)			
Capacity Affected by Temp.(10HR)	40 °C	25 °C	0 °C	-15 °C
	102%	100%	85%	65%
Charge Voltage (25°C)	Cycle use		Float use	
	14.28-14.52V (-30mV/°C), max. Current: 20A		13.38-13.68V(-20mV/°C)	

## VALVE REGULATED LEAD-ACID RECHARGEABLE BATTERY

### FL121000G (12V100Ah/10hr)

Constant current discharge ratings-amperes at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	310	234	178	108	64.2	27.1	17.7	10.3	5.30
1.65V	294	223	170	105	61.7	26.3	17.2	10.2	5.27
1.70V	276	211	161	103	59.4	25.4	16.8	10.1	5.24
1.75V	260	198	152	101	57.0	24.3	16.3	10.0	5.20
1.80V	242	188	143	99	54.7	23.1	15.8	10.0	5.15

Constant power discharge ratings-watts at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	545	415	317	193	116	49.1	32.3	18.8	9.75
1.65V	520	398	303	189	112	47.8	31.6	18.8	9.75
1.70V	492	377	289	186	108	46.4	30.8	18.7	9.75
1.75V	465	356	275	184	104	44.7	30.1	18.6	9.72
1.80V	436	341	260	181	101	42.8	29.3	18.7	9.68

