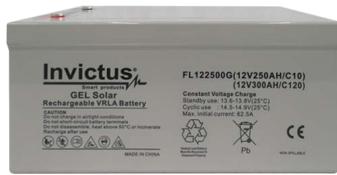


VALVE REGULATED LEAD-ACID RECHARGEABLE BATTERY

FL122500GEL

(12V250Ah/10hr)



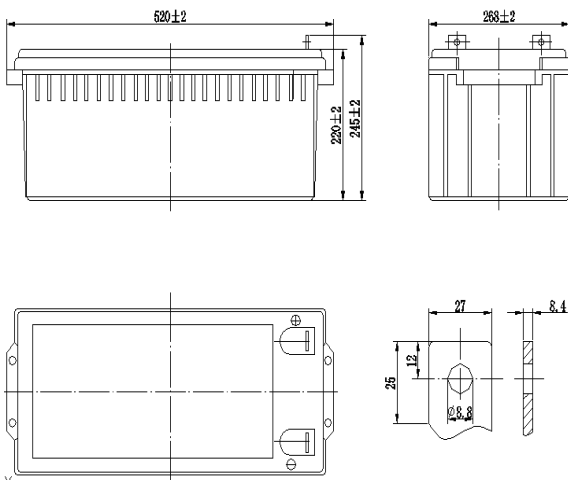
The rechargeable GEL batteries are lead-lead dioxide systems. Which are new products developed success base on SLA batteries. In contrast with AGM batteries, electrolyte of GEL batteries is composed of micro millimeter SiO₂ and H₂SO₄ gelled electrolyte is reversibility and steady three-dimensional network structure; especial grid alloy and gelled electrolyte “micro-crack” structure is easy for returning into H₂O when producing oxygen; special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. On the other hand, the battery is completely sealed, maintenance-free, Safety and usable in any position.

Application

- Medical Equipment
- Cable Television
- Power tools
- Emergency Power System
- Toys
- Solar and Wind Power System
- 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	Lead	Fiberglass	Gelled acid

TECHNOLOGY PARAMETER

Battery model	FL122500GEL			
Designed Floating Life	10 Years			
Capacity (25°C)	10HR(25A, 10.8V)	5HR(40A, 10.5V)	1HR(152A, 9.60V)	
	250Ah	200Ah	152Ah	
Dimensions	Length	Width	Height	Total Height
	520±2mm	268±2mm	220±2mm	245±2mm
Approx. weight (±3%)	69 Kg (152.12lbs)			
Internal resistance	Full charged at 25°C: Approx. 2.5mOhms			
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: 50A		13.38-13.68V (-20mV/°C)	

VALVE REGULATED LEAD-ACID RECHARGEABLE BATTERY

FL122500GEL (12V250Ah/10hr)

Constant current discharge ratings-amperes at 25°C

End Point Volts/Cell	1h	3h	5h	10h	24h	48h	100h	120h
1.60V	152	66.7	43.6	25.4	11.1	--	--	--
1.65V	146	64.6	42.4	25.3	11.1	--	--	--
1.70V	141	62.4	41.2	25.3	11.1	6.01	--	--
1.75V	135	59.7	40.0	25.2	11.0	5.99	--	--
1.80V	129	57.0	38.7	25.0	10.9	5.94	3.00	--
1.85V	124	54.8	37.2	24.8	10.9	5.89	2.98	2.52
1.90V	118	52.4	36.1	24.2	10.6	5.75	2.90	2.46

Constant power discharge ratings-watts at 25°C

End Point Volts/Cell	1h	3h	5h	10h	24h	48h	100h	120h
1.60V	278	123	80.6	47.3	20.8	--	--	--
1.65V	266	118	78.0	46.9	20.6	--	--	--
1.70V	255	114	75.3	46.6	20.5	11.2	--	--
1.75V	243	108	72.7	46.2	20.3	11.1	--	--
1.80V	232	103	70.1	45.5	20.0	10.9	5.50	--
1.85V	220	98.1	67.0	44.9	19.7	10.8	5.43	4.66
1.90V	209	93.3	64.6	43.6	19.2	10.5	5.27	4.53

