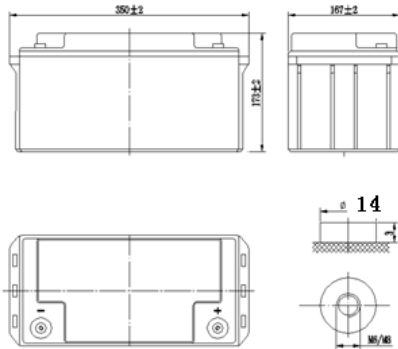


GEL12650

(12V65Ah/10hr)



The rechargeable GEL batteries are lead-lead dioxide systems. Which are new products developed success base on SLA batteries. In contrast with PE 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
- UPS
- Communication Equipment
- Control Equipment

General Features

- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers 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	GEL12650							
Designed Floating Life	10-15 Years							
Capacity (25°C)	10hR(6.5A, 10.8V)		5hR(10.7A, 10.5V)			1hR(40.7A, 9.60V)		
	65Ah		53.5Ah			40.7Ah		
Dimensions	Length		Width		Height		Total Height	
	350±2mm		167±2mm		173±2mm		173±2mm	
Approx. weight (±5%)	21Kg							
Internal resistance	Full charged at 25°C: Approx. 7.5mOhms							
Self discharge	3% of capacity declined per month at 25°C (average)							
Capacity Affected by Temp.(20HR)	40 °C		25 °C		0 °C		-15 °C	
	102%		100%		85%		65%	
Charge Voltage (25°C)	Cycle use				Float use			
	14.4-15.0V(-15mV/°C), max. Current: 16.25A				13.5-13.8V(-20mV/°C)			

GEL12650 (12V65Ah/10hr)

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	210	159	121	70.8	40.7	17.9	11.7	6.70	3.51
1.65V	200	152	115	69.5	39.2	17.3	11.4	6.65	3.47
1.70V	188	143	109	68.2	37.7	16.7	11.0	6.58	3.45
1.75V	176	135	103	66.9	36.2	16.0	10.7	6.53	3.40
1.80V	164	128	97.2	65.6	34.7	15.3	10.4	6.50	3.37

Constant power discharge ratings-watts at 25°C

End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	378	287	220	130	74.9	33.1	21.7	12.5	6.60
1.65V	357	273	208	127	71.8	31.9	21.0	12.4	6.50
1.70V	334	256	196	123	68.6	30.6	20.3	12.2	6.42
1.75V	311	240	185	120	65.6	29.2	19.6	12.0	6.30
1.80V	289	226	173	117	62.5	27.7	18.9	11.7	6.20

