

SLA BATTERY—GEL TECHNOLOGY

▶ Specification

Nominal Voltage	12V
Number of cell	6
Nominal Capacity	200Ah@10hr-rate (20.0A to 1.80V/cell @25°C)
Weight	Approx.57.50Kg
Terminal	M8,Φ=16&18
Container Material	ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.
Rated Capacity	205.0Ah      20hr-rate (10.25A to 1.80V/cell @25°C)
	200.0Ah      10hr-rate (20.0A to 1.80V/cell @25°C)
	167.0Ah      5hr-rate (33.4A to 1.75V/cell @25°C)
	122.0Ah      1hr-rate (122A to 1.60V/cell @25°C)
Max. Discharge Current	1000A(5sec)
Internal Resistance	Approx.2.6mΩ(Fully charged)
Operating Temp. Range	Discharge: -40 °C~60°C
	Charge : -20°C~50°C
	Storage : -40°C~60°C
Cycle Use	Charging Current: ≤40.0A
	Voltage:14.2V ~14.4V
	Temperature compensation:-30mV/°C
Standby Use	Charging Current:No limit
	Voltage:13.6V ~13.8V
	Temperature compensation:-20mV/°C
Self-Discharge	less than 1% at 25C
Design Life	15 years (floating charge)

▶ Introduction

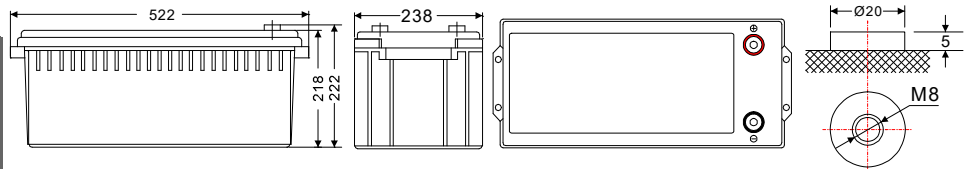
The GEL-TECH batteries designed with 15+ years service life. The SOLID-GEL system can avoid corrosion and stratification. The special separator can properly prevent short-circuit. It can offer high deep discharge ability, super thermal stability, good recovery-ability after deep discharging. The deep discharge cycles of GEL-TECH batteries can be more than 30% compared with other normal AGM batteries.

▶ Applications

- ◆ Auto control system &ATM machine
- ◆ Electronic apparatus and equipment
- ◆ Emergency light & Emergency backup power supply & Alarm/Security system
- ◆ Power generation system (solar and wind power system,etc.)
- ◆ Communication power & DC power
- ◆ Electric Power System(EPS)
- ◆ Uninterruptable Power System (UPS)
- ◆ .....

▶ Dimensions

Length	522±1mm (20.47 inches)
Width	238±1mm (9.45 inches)
Height	218±1mm (8.62 inches)
Total Height	222±1mm (8.82 inches)



Unit: mm

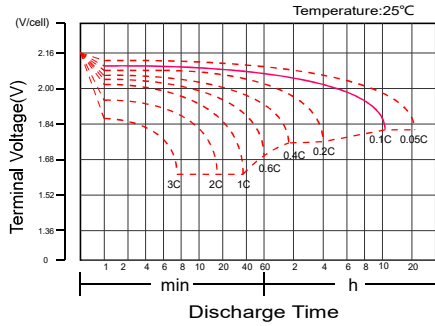
Constant Current Discharge Characteristics: A (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	662.3	474.6	345.3	216.8	122.5	69.95	49.20	40.72	34.29	24.34	20.96	11.09
1.65V/cell	644.6	451.6	338.2	213.2	122	69.42	49.01	40.53	34.09	24.14	20.76	10.88
1.70V/cell	607.4	435.6	332.9	211.3	120.8	68.89	48.63	40.34	33.88	23.95	20.56	10.68
1.75V/cell	545.4	402	317	206	119.7	68.37	48.44	39.96	33.48	23.75	20.36	10.48
1.80V/cell	492.3	366.6	292.2	197	116.9	67.14	47.12	39.02	32.88	23.35	20.16	10.28
1.85V/cell	428.5	327.6	262.1	184.5	111	64.16	45.05	37.13	31.46	22.36	19.55	9.67

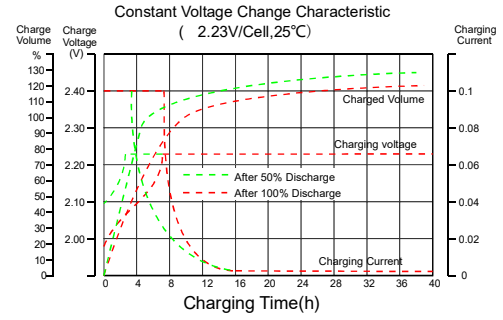
Constant Power Discharge Characteristics: W (25°C)

F. V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	6308	4613	3396	2446	1401	804.6	567.7	470.5	396.9	282.5	235.7	124.5
1.65V/cell	6179	4406	3326	2416	1394	801.5	566.6	469.4	394.5	281.3	233.3	123.3
1.70V/cell	5833	4259	3280	2387	1384	794.1	563.2	467.1	393.3	278.9	232.1	122.1
1.75V/cell	5252	3935	3128	2333	1371	786.8	559.8	463.7	389.7	276.5	229.7	120.9
1.80V/cell	4725	3573	2874	2227	1337	775.2	546.3	451.3	383.6	270.6	227.2	119.7
1.85V/cell	4078	3173	2566	2087	1267	739.4	519.1	429.8	364.3	261.1	220.0	114.8

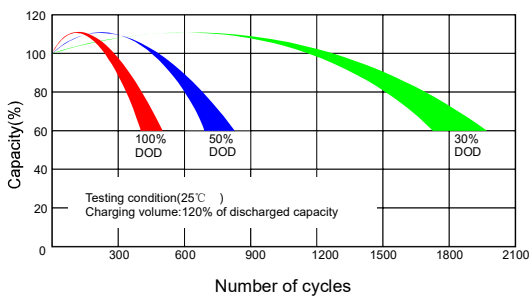
## Discharge Characteristics Curve



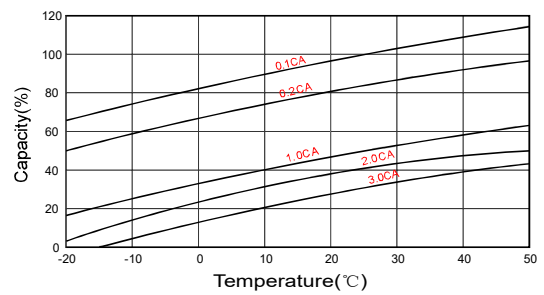
## Charging Characteristics Curve



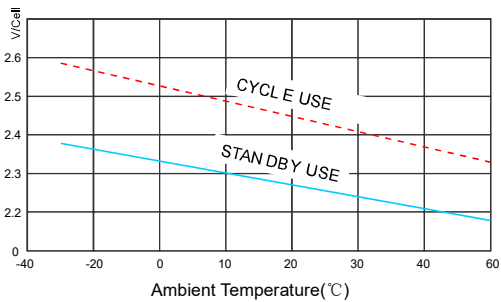
## Cycle life in relation to depth of Discharge



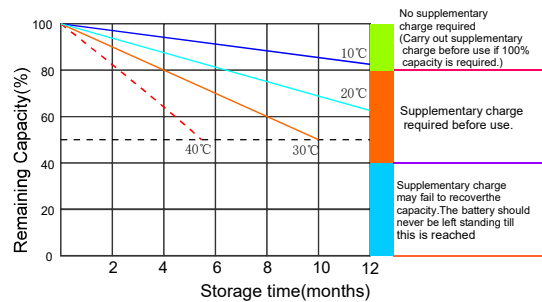
## Temperature effects on Capacity



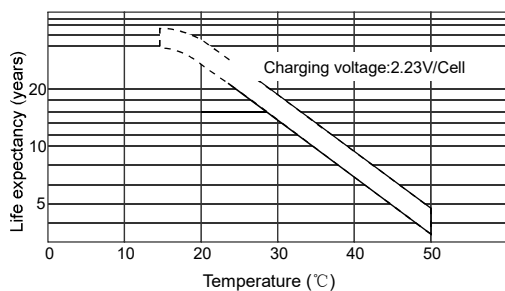
## Relationship between charging voltage and temperature



## Self-discharge Characteristics



## Temperature effects on Float life



## Life Characteristics of Standby use

