

SMART GEL 6V 225Ah

Specification

Cells Per Unit	3
Voltage Per Unit	6
Capacity	225Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 32.0 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 4.0 mΩ
Terminal	F14(M8)
Max. Discharge Current	2250A (5 sec)
Design Life	15 years (floating charge)
Max. Charging Current	45.0 A
Reference Capacity	C3 153.6AH C5 173.5AH C10 198.0AH C20 225.0AH
Float Charging Voltage	6.80 V~6.90 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	7.10 V~7.20 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -40°C~60°C Charge: -20°C~50°C Storage: -40°C~60°C
Normal Operating Temperature Range	25°C ±5°C
Self Discharge	SMART Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C, and then recharging is recommended. Monthly Self-discharge ratio is less than 2% at 20°C. Please charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

DG (Deep Cycle GEL) series is pure GEL battery with 15 years floating design life, it is ideal for standby or frequent cyclic discharge applications under extreme environments. By using strong grids, high purity lead and patented GEL electrolyte, the DG series offers excellent recovery capability after deep discharge under frequent cyclic discharge use, and it can offers 2 times cyclic life than the standard series. It is suitable for solar & wind system, marine, deep discharge UPS etc.



ISO 9001



ISO 14001



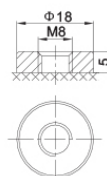
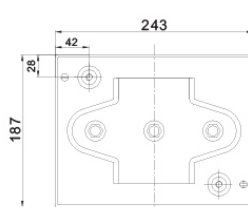
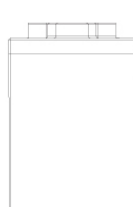
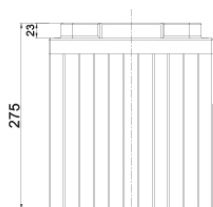
OHSAS 18001



MH 28539



Dimensions



F14 Terminal

Length	243±2mm (9.57 inches)
Width	187±2mm (7.36 inches)
Height	275±2mm (10.8 inches)
Total Height	275±2mm (10.8 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

Constant Current Discharge Characteristics :A(25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	292.8	194.1	122.2	74.7	56.0	44.7	37.5	25.3	20.9	11.71
1.65V	279.9	186.3	118.0	72.3	54.2	43.4	36.5	25.0	20.6	11.53
1.70V	262.2	178.1	114.2	69.9	52.8	42.3	35.5	24.7	20.3	11.39
1.75V	244.0	170.2	110.0	67.5	51.2	41.2	34.7	24.3	20.1	11.25
1.80V	225.3	162.7	105.8	65.0	49.6	40.0	33.8	23.9	19.8	11.13
1.85V	186.9	140.1	94.9	59.6	45.9	37.2	31.5	22.4	18.6	10.57

Constant Power Discharge Characteristics : WPC(25°C)

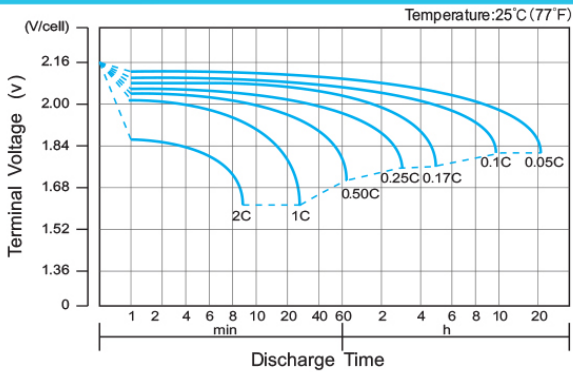
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	581.6	400.5	260.9	160.8	121.5	97.4	82.1	56.2	46.7	26.2
1.65V	559.0	387.8	253.8	156.4	118.5	95.2	80.2	55.6	46.1	25.9
1.70V	536.4	375.1	246.7	152.1	115.5	92.9	78.4	55.0	45.5	25.5
1.75V	506.4	362.2	239.1	147.5	112.5	90.9	76.7	54.3	45.0	25.3
1.80V	474.2	349.7	231.3	142.9	109.5	88.6	75.0	53.5	44.5	25.0
1.85V	399.1	304.2	208.7	131.6	101.7	82.6	70.2	50.3	41.9	23.8

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

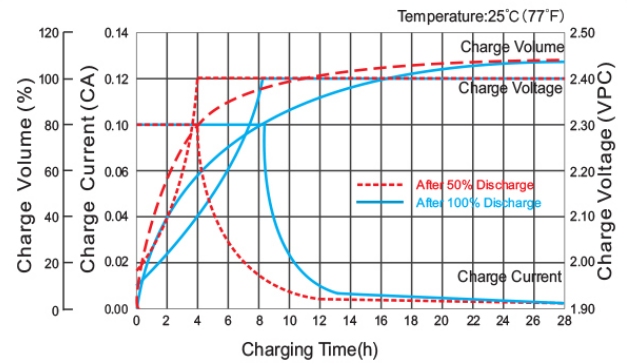
The battery must be fully charged before the capacity test. The C₂₀ should reach 95% after the first cycle and 100% after the third cycle.

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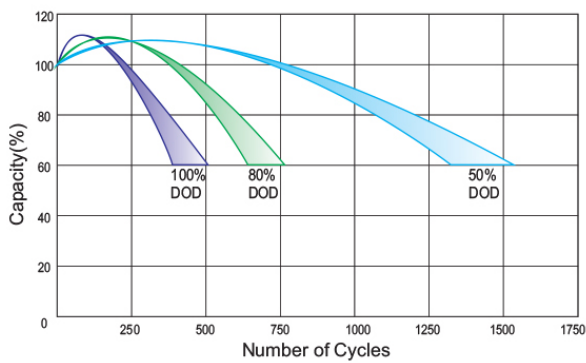
Discharge Characteristics Curve



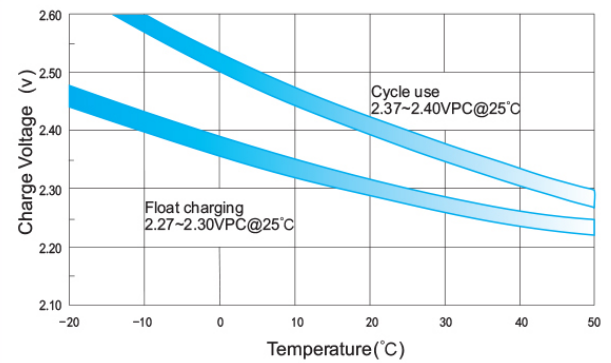
Charge Characteristic Curve for Cycle Use(IU)



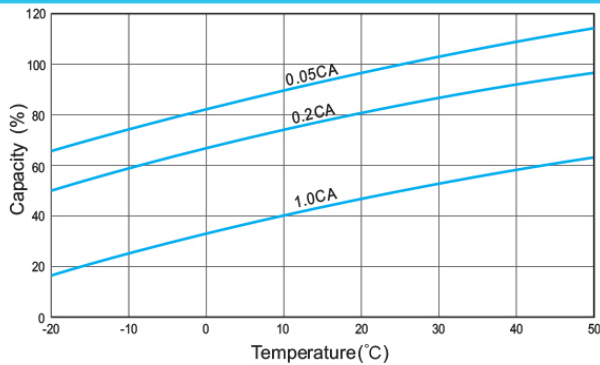
Cycle Life in Relation to Depth of Discharge



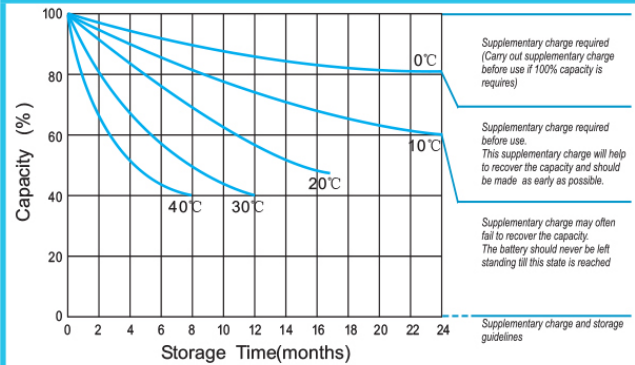
Relationship Between Charging Voltage and Temperature



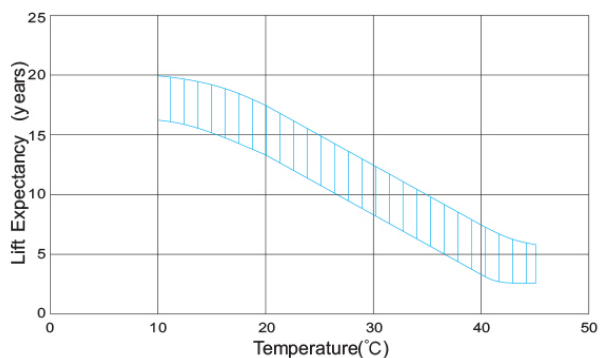
Temperature Effects on Capacity



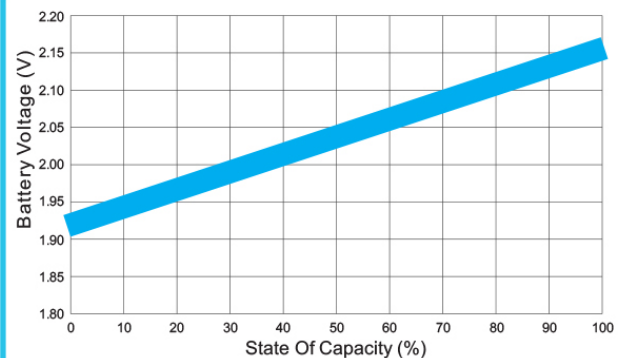
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20°C)



(Note) All above information shall be changed without prior notice, Ritara reserves the right to explain and update the latest information.