GEL 12V 33Ah

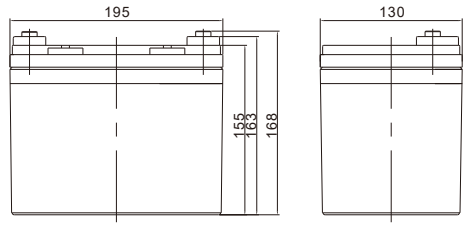
Specification

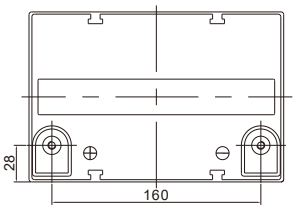
Cells Per Unit	6
Voltage Per Unit	12
Capacity	33Ah@20hr-rate to 1.75V per cell @25℃
Weight	Approx. 10.2 Kg (Tolerance±2%)
Internal Resistance	Approx. 9.5mΩ
Terminal	F7(M8)/F11(M6)
Max. Discharge Current	330A (5 sec)
Design Life	15 years (floating charge)
Maximum Charging Current	6.6A
Reference Capacity	C3 22.5AH C5 26.0AH C10 28.9AH C20 33.0AH
Float Charging Voltage	13.6 V~13.8 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	14.2 V~14.4 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Operating Temperature Range	Discharge: -40℃~60℃ Charge: -20℃~50℃ Storage: -40℃~60℃
Normal Operating Temperature Range	25℃±5℃
Self Discharge	Less than 3% at 25℃ per month
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

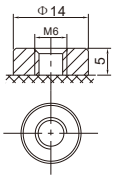
Application

- Solar/Wind Power System
- Uninterruptible Power Supplies (UPS)
- Electric Power Systems (EPS)
- Emergency Backup Power Supplies
- Communication Power Supplies
- DC Power Supplies
- Auto Control System

Dimensions







F11 TERMINAL

Length	195±1mm (7.68 inches)
Width	130±1mm (5.12 inches)
Height	155±1mm (6.10 inches)
Total Height	168±1mm (6.61 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℃)

F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	47.86	31.47	18.45	11.03	7.62	6.31	5.31	3.63	3.01	1.82
1.65V	46.88	30.95	18.36	10.95	7.59	6.28	5.28	3.60	2.98	1.75
1.70V	46.15	30.68	18.19	10.87	7.53	6.25	5.25	3.57	2.95	1.70
1.75V	44.45	30.75	18.02	10.78	7.50	6.19	5.19	3.54	2.92	1.65
1.80V	41.45	30.51	17.60	10.59	7.30	6.05	5.09	3.48	2.89	1.55
1.85V	37.61	28.84	16.72	10.12	6.98	5.76	4.88	3.33	2.81	1.49

Constant Power Discharge Characteristics : WPC(25℃)

F.V/Time	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	87.0	58.9	35.5	21.7	15.1	12.5	10.6	7.22	6.00	3.21
1.65V	85.6	58.2	35.4	21.6	15.1	12.5	10.5	7.19	5.96	3.15
1.70V	84.6	58.3	35.2	21.4	15.0	12.5	10.5	7.14	5.90	3.10
1.75V	81.7	58.5	34.9	21.3	15.0	12.4	10.4	7.08	5.85	3.04
1.80V	76.3	58.1	34.2	21.0	14.6	12.1	10.2	6.96	5.79	2.98
1.85V	69.5	55.3	32.7	20.2	14.0	11.5	9.75	6.67	5.61	2.80

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

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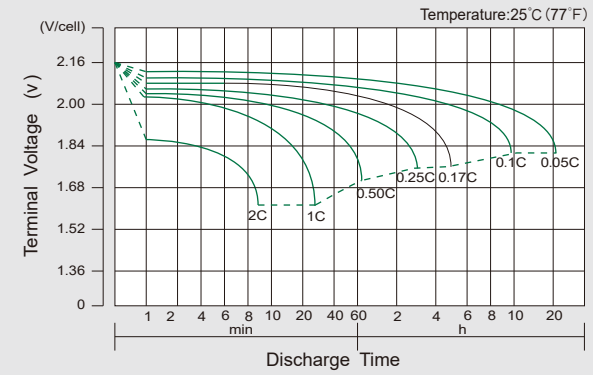
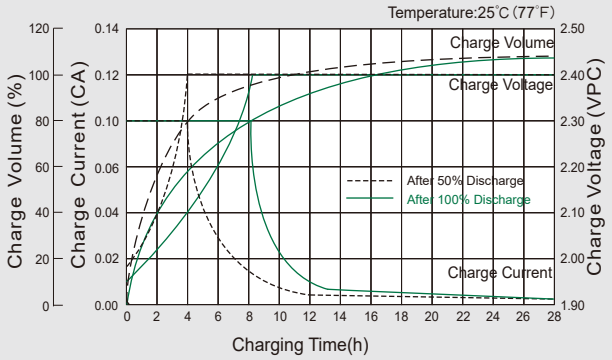
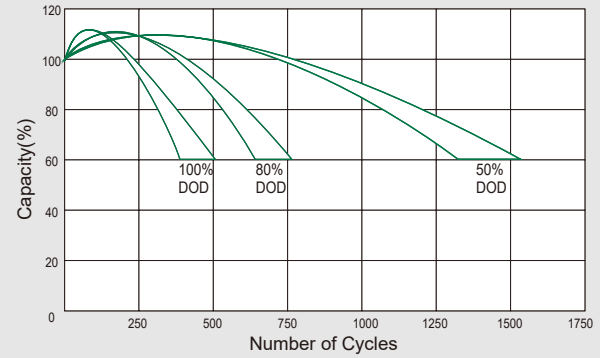
Discharge Characteristics Curve



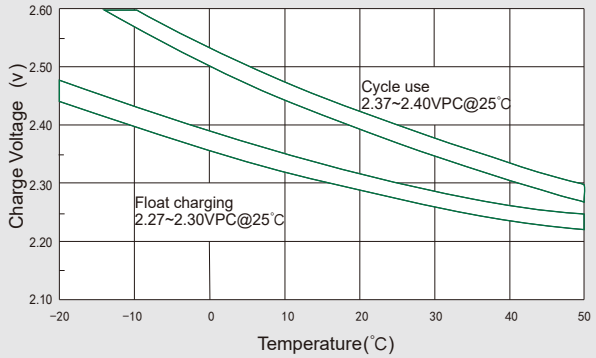
Charge Characteristic Curve for Cycle Use(IU)



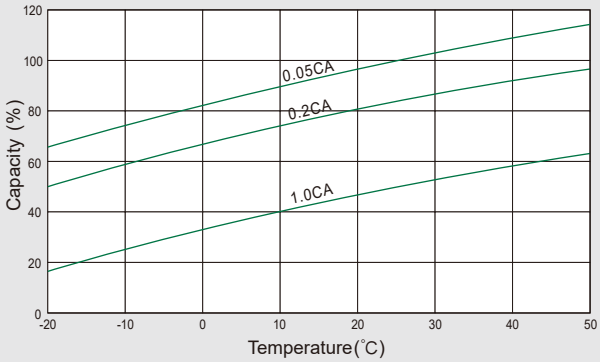
Cycle Life in Relation to Depth of Discharge



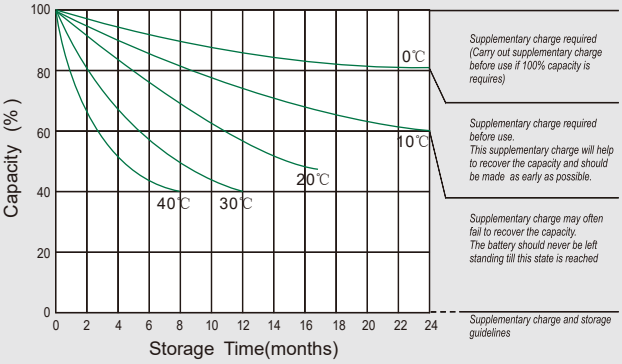
Relationship Between Charging Voltage and Temperature



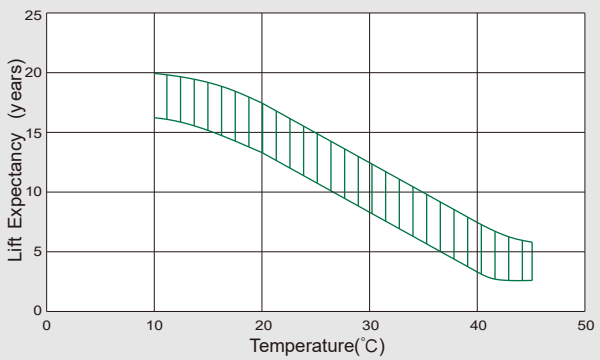
Temperature Effects on Capacity



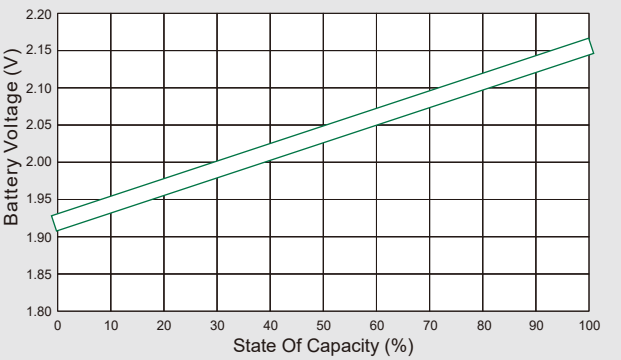
Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20℃)



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