

HA12-60G (12V60Ah)



Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	60Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 20.0 Kg (Tolerance±3%)
Internal Resistance	Approx. 6.5 mΩ
Terminal	F11(M6)/F15(M6)
Max. Discharge Current	600A (5 sec)
Cold Cranking Ampere(CCA)	390A
Maximum Charging Current	18.0 A
Reference Capacity	C3 46.8AH
	C5 53.0AH
	C10 57.0AH
	C20 60.0AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C
	Charge: 0°C~50°C
	Storage: -20°C~60°C
Normal Operating Temperature Range	25°C±5°C
Self Discharge	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 3% at 25°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

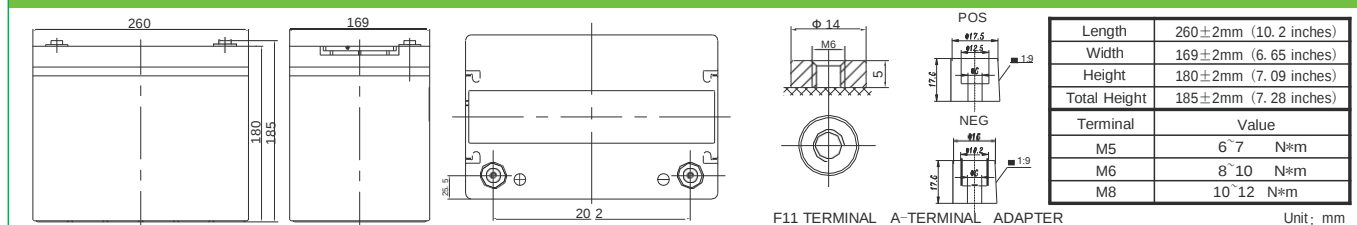
HG EV (Electric Vehicle) series is specially designed for frequent discharge deep cycle application.

By using the specially designed active material strong grids and thick plate construction the **HG EV** series battery offers reliable performance in high load situations and could provide competitive cycle performance.

Suitable for Electric Vehicle and Golf cart; Industrial equipment, Floor machines, Forklifts, Aerial lifts, and Robotics; Marine, RV, and no-idle solutions; Mobility and Medical equipment and most outdoor application.



Dimensions



Constant Current Discharge Characteristics : A(25°C)

F.V/Tim e	30 M IN	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
1.60V	64.2	37.1	22.0	16.7	13.2	11.1	7.37	6.12	3.12
1.65V	62.9	36.4	21.6	16.5	13.0	11.0	7.29	6.06	3.09
1.70V	61.1	35.5	21.1	16.1	12.7	10.8	7.18	5.97	3.05
1.75V	58.7	34.2	20.4	15.6	12.4	10.6	7.03	5.86	3.00
1.80V	55.3	32.5	19.5	15.0	11.9	10.20	6.82	5.70	2.93
1.85V	50.6	30.0	18.1	14.1	11.3	9.69	6.51	5.47	2.82

Constant Power Discharge Characteristics : WPC(25°C)

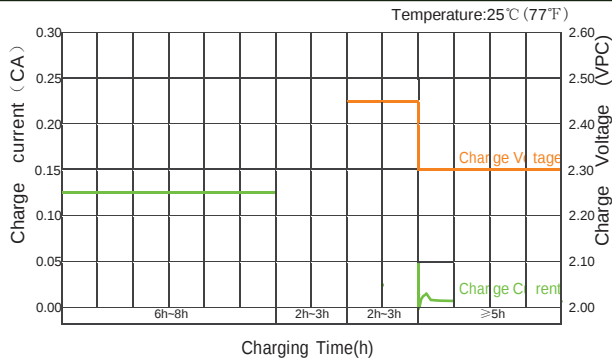
F.V/Tim e	30 M IN	1 HR	2 HR	3 HR	4 HR	5 HR	8 HR	10 HR	20 HR
1.60V	117	69.4	41.6	31.9	25.2	21.4	14.4	12.0	6.14
1.65V	116	68.8	41.2	31.6	25.0	21.3	14.3	11.9	6.10
1.70V	113	67.3	40.4	31.0	24.6	21.0	14.1	11.8	6.03
1.75V	110	65.2	39.3	30.3	24.1	20.6	13.8	11.6	5.93
1.80V	105	62.2	37.6	29.1	23.3	19.9	13.4	11.3	5.79
1.85V	96.7	57.8	35.2	27.5	22.0	19.0	12.9	10.8	5.59

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

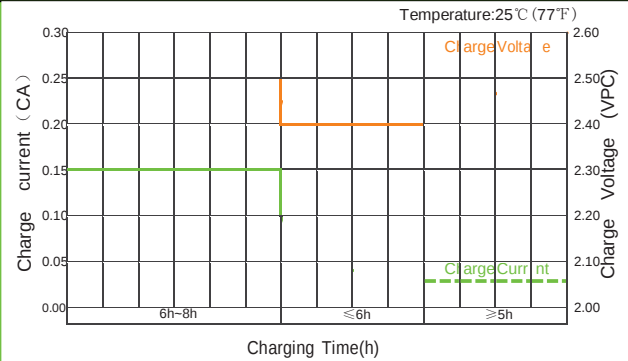
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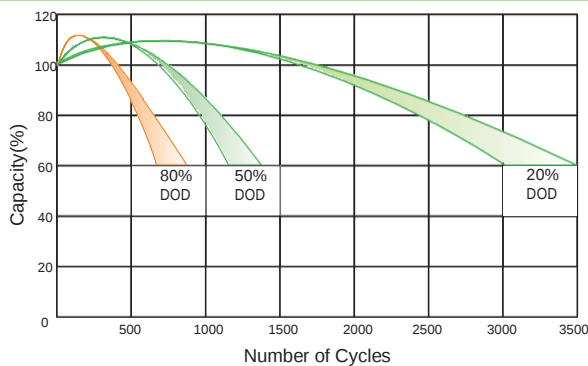
Charge Characteristic Curve for Cycle Use(IUUU)



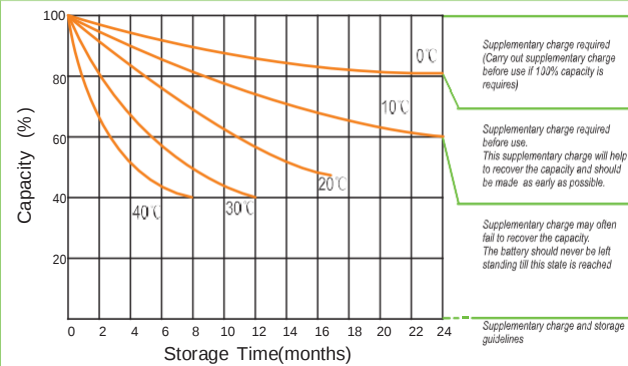
Charge Characteristic Curve For Cycle Use(IUI)



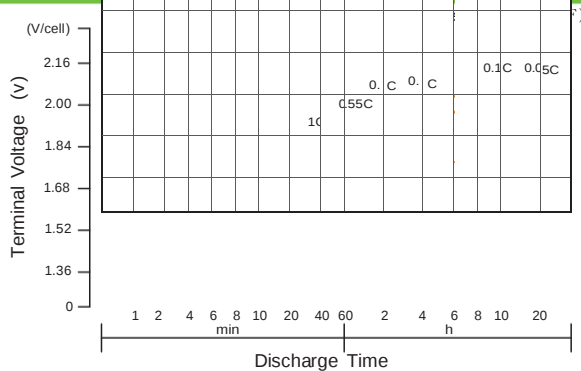
Cycle Life in Relation to Depth of Discharge



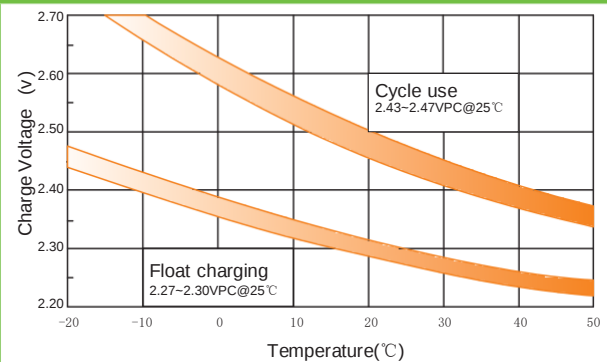
Storage Characteristics



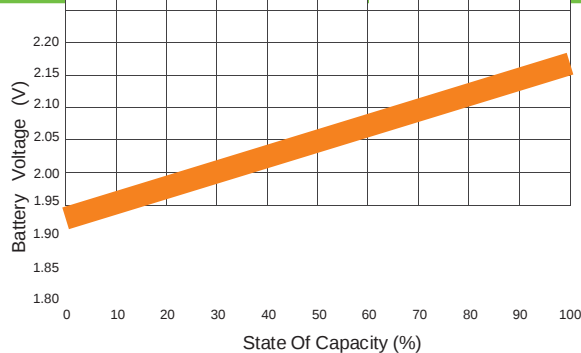
Discharge



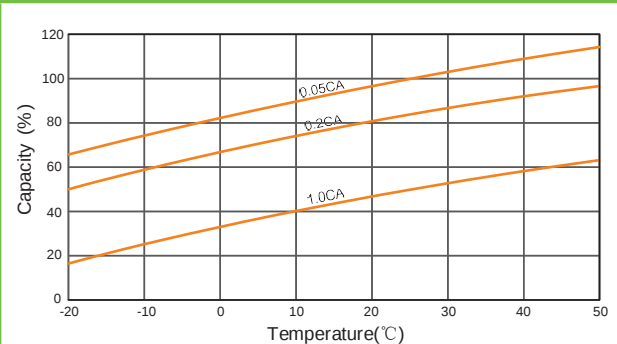
Relationship Between Charging Voltage and Temperature



Rela



Temperature Effects on Capacity



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

