

AGM Battery 6EVF 12V-100AH

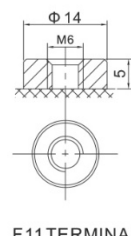
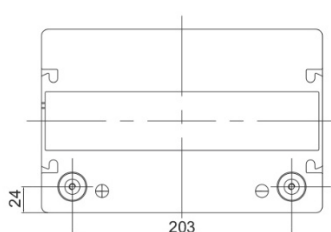
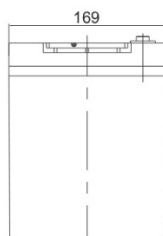
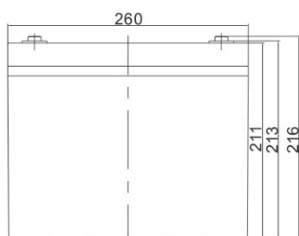
AGM Battery is specially designed for frequent discharge deep cycle application. By using the specially designed active material, strong grids and thick plate construction, the EV series battery offers reliable performance in high load situations and could provide competitive cycle performance. It is suitable for Electric Vehicle and Golf cart, Floor Machines, Forklifts, Aerial lifts, Robotics, Marine, RV, Mobility and Medical Equipment, and most outdoor application.



Specification

Cells Per Unit	6
Voltage Per Unit	12V
Capacity	90Ah@20hour-rate to 1.75V per cell @25°C
Weight	Approx. 26.0 Kg (Tolerance±5%)
Internal Resistance	≤5.0 mΩ (Full Charge Condition @25°C)
Terminal	Default F11(M6), F15(M6) & L4 Optional
Max. Discharge Current	900A (5 sec)
Cold Cranking Ampere (CCA)	560A
Maxi. Charging Current	27.0A
Reference Capacity	C ₃ 67.5Ah C ₅ 76.5Ah C ₁₀ 85.5Ah C ₂₀ 90.0Ah
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

Dimensions



Length	260±2mm (10.2 inches)
Width	169±2mm (6.65 inches)
Height	211±2mm (8.31 inches)
Total Height	216±2mm (8.50 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)

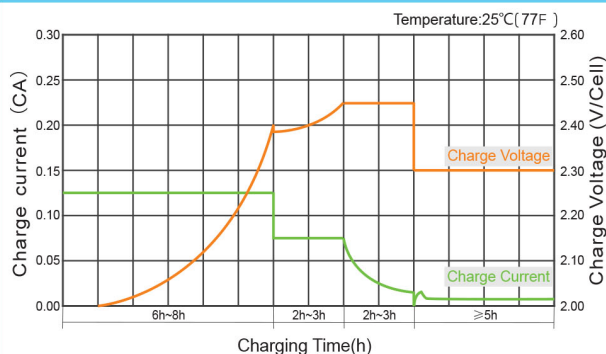
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	223.9	170.2	99.5	55.0	32.6	25.4	19.9	17.0	11.2	9.02	4.69
1.65V	211.6	162.7	95.5	53.1	31.6	24.6	19.4	16.5	11.0	8.91	4.61
1.70V	194.8	152.4	91.3	51.4	30.5	23.9	18.9	16.1	10.9	8.78	4.56
1.75V	178.3	141.8	87.3	49.5	29.5	23.2	18.4	15.7	10.7	8.66	4.50
1.80V	161.4	130.9	83.4	47.6	28.4	22.5	17.9	15.3	10.5	8.55	4.46
1.85V	131.9	108.6	71.9	42.7	26.0	20.8	16.6	14.3	9.89	8.05	4.23

Constant Power Discharge Characteristics: W/Cell (25°C)

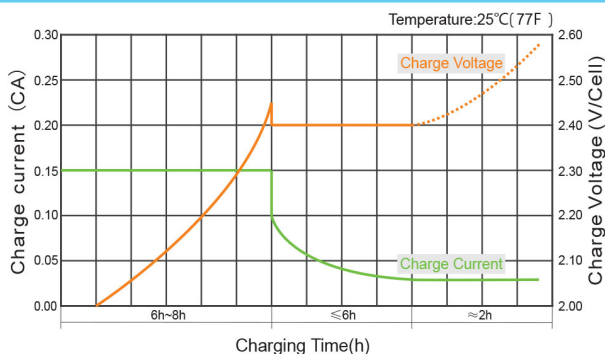
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	380.5	297.5	180.8	103.3	61.8	48.5	38.3	32.7	21.8	17.7	9.23
1.65V	366.5	288.6	175.4	100.4	60.1	47.2	37.4	32.0	21.6	17.5	9.09
1.70V	343.6	274.3	169.3	97.7	58.5	46.1	36.5	31.3	21.3	17.3	8.99
1.75V	320.2	259.0	163.5	94.7	56.7	44.9	35.7	30.6	21.1	17.1	8.89
1.80V	294.9	242.5	157.8	91.6	54.9	43.7	34.8	29.9	20.7	16.9	8.82
1.85V	245.3	204.1	137.3	82.7	50.6	40.6	32.5	28.0	19.5	15.9	8.38

(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.

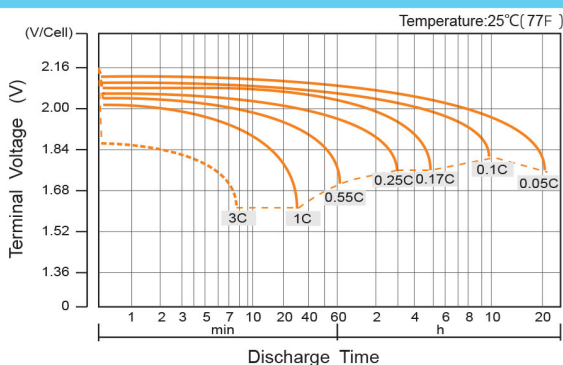
Charge Characteristic Curve for Cycle Use(IUUU)



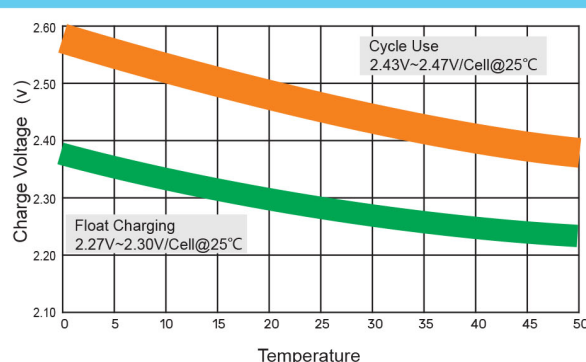
Charge Characteristic Curve For Cycle Use(IUI)



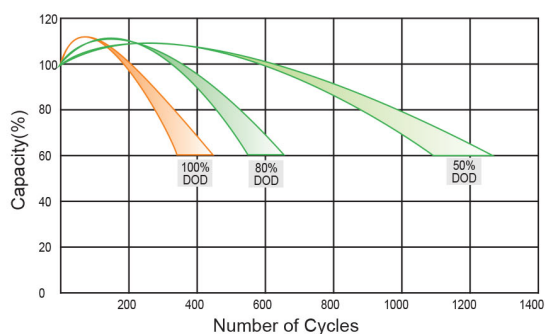
Discharge Characteristics Curve



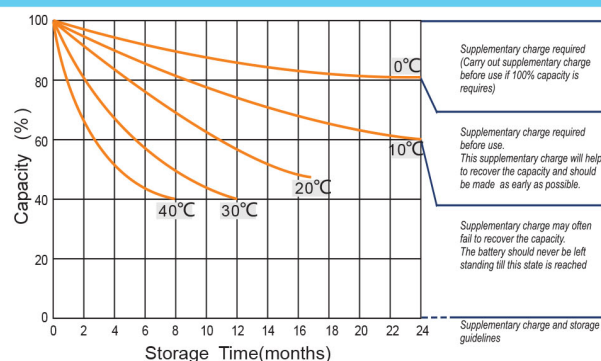
Relationship Between Charging Voltage and Temperature



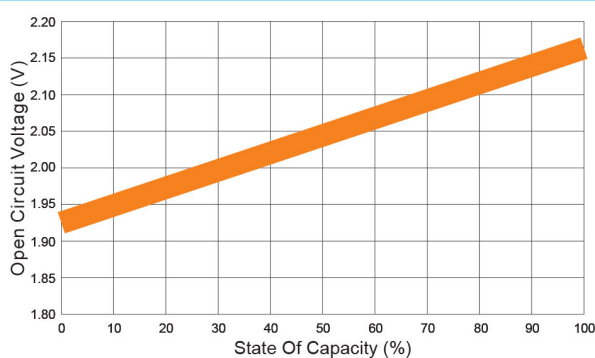
Cycle Life in Relation to Depth of Discharge



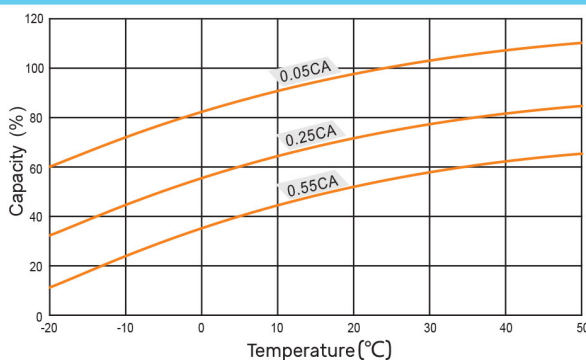
Storage Characteristics



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



Temperature Effects on Capacity



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