



EV12-120(12V120Ah)



Specification

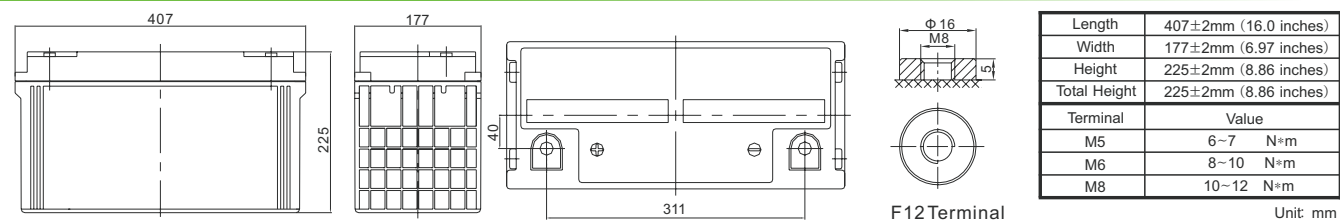
Cells Per Unit	6
Voltage Per Unit	12
Capacity	120Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 36.5 Kg (Tolerance ±2%)
Internal Resistance	Approx. 4.5 mΩ
Terminal	F12(M8)/F5(M8)
Max. Discharge Current	1200A (5 sec)
Cold Cranking Ampere(CCA)	710A
Maximum Charging Current	36.0 A
Reference Capacity	C3 93.9AH
	C5 105.5AH
	C10 114.0AH
	C20 120.0AH
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	RITAR 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.



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 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/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	123.3	71.2	43.5	33.4	26.3	22.3	14.7	12.2	6.24
1.65V	120.7	69.9	42.7	32.9	25.9	22.0	14.6	12.1	6.18
1.70V	117.3	68.1	41.8	32.2	25.5	21.6	14.4	11.9	6.10
1.75V	112.6	65.7	40.4	31.3	24.8	21.1	14.1	11.7	6.00
1.80V	106.3	62.3	38.6	30.0	23.9	20.4	13.6	11.4	5.85
1.85V	97.2	57.6	35.9	28.1	22.5	19.4	13.0	10.9	5.64

Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	224	133	82.4	63.8	50.5	42.9	28.8	24.1	12.3
1.65V	223	132	81.6	63.2	50.1	42.6	28.6	23.9	12.2
1.70V	217	129	80.0	62.1	49.2	42.0	28.2	23.6	12.1
1.75V	211	125	77.7	60.5	48.1	41.1	27.6	23.1	11.9
1.80V	201	119	74.5	58.3	46.5	39.9	26.9	22.5	11.6
1.85V	186	111	69.8	54.9	44.1	38.0	25.7	21.7	11.2

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



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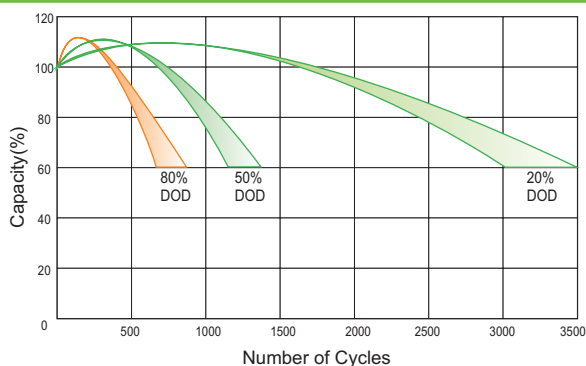
Charge Characteristic Curve for Cycle Use(IIUU)



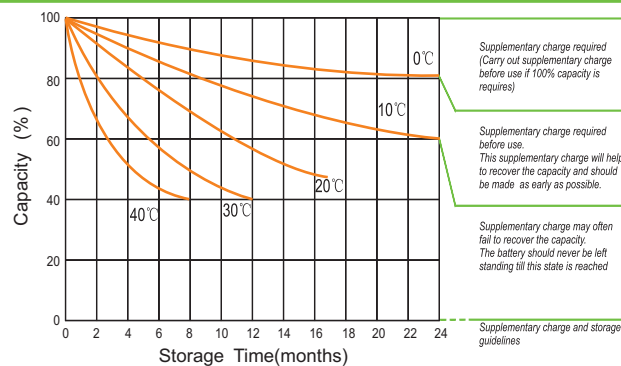
Charge Characteristic Curve For Cycle Use(III)



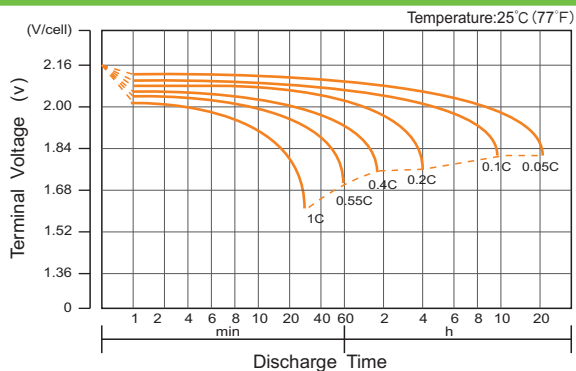
Cycle Life in Relation to Depth of Discharge



Storage Characteristics



Discharge Characteristics Curve



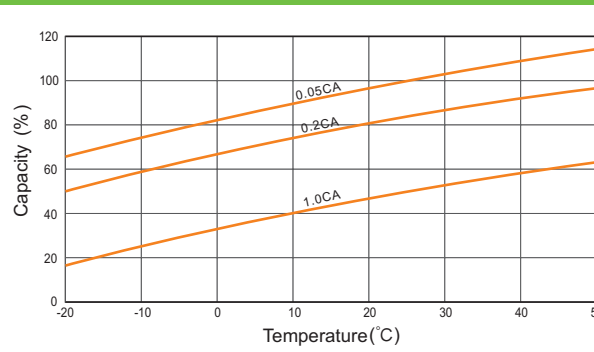
Relationship Between Charging Voltage and Temperature



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.