



Specification

BR-12V100-EV



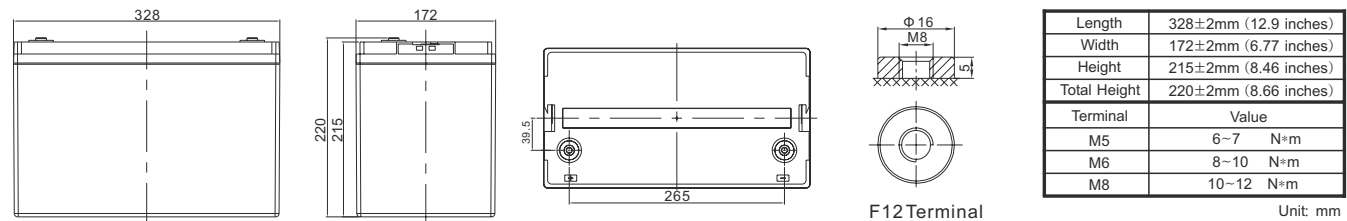
Electric Vehicle series is designed for frequent discharge deep cycle application - by using specially designed active material, strong grids, thick plate construction this battery offers reliable performance in high load situations.

Suitable for electric vehicle, golf carts, industrial equipment, floor machines, forklifts, aerial lifts, robotics, marine, RV's, no-idle Solutions, mobility equipment, medical equipment and most outdoor applications.



Cells Per Unit	6
Voltage Per Unit	12
Capacity	100Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 31.5 Kg (Tolerance ±2%)
Internal Resistance	Approx. 5.0 mΩ
Terminal	F12(M8)
Max. Discharge Current	1000A (5 sec)
Cold Cranking Ampere(CCA)	630A
Maximum Charging Current	30.0 A
Reference Capacity	C3 78.3AH
	C5 85.0AH
	C10 95.0AH
	C20 100.0AH
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 charge batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

Dimensions



Constant Current Discharge Characteristics : A(25°C)

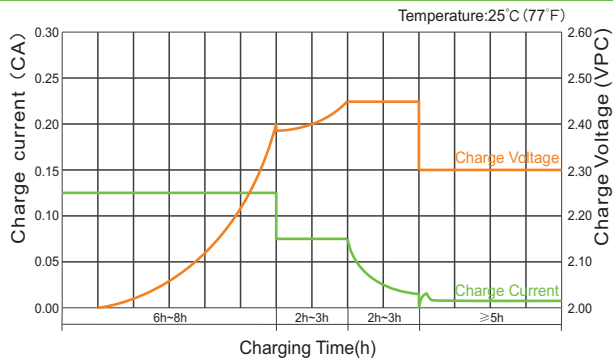
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	107.0	61.8	36.6	27.8	21.9	18.5	12.3	10.2	5.20
1.65V	104.8	60.7	36.0	27.4	21.6	18.3	12.2	10.1	5.15
1.70V	101.8	59.1	35.1	26.9	21.2	18.0	12.0	10.0	5.09
1.75V	97.8	57.0	34.0	26.1	20.7	17.6	11.7	9.77	5.00
1.80V	92.2	54.1	32.5	25.0	19.9	17.0	11.4	9.50	4.88
1.85V	84.4	50.0	30.2	23.5	18.8	16.1	10.8	9.12	4.70

Constant Power Discharge Characteristics : WPC(25°C)

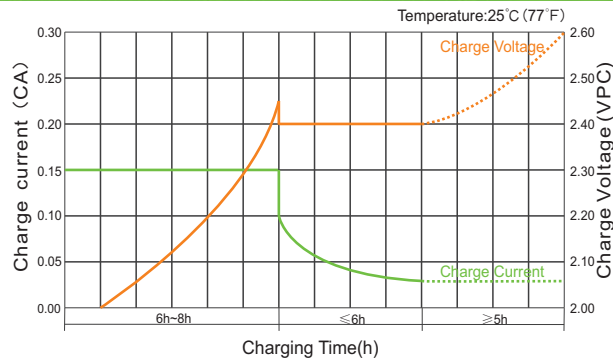
F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	194	116	69.4	53.2	42.1	35.7	24.0	20.0	10.2
1.65V	193	115	68.7	52.7	41.7	35.5	23.8	19.9	10.2
1.70V	189	112	67.3	51.7	41.0	35.0	23.5	19.6	10.0
1.75V	183	109	65.4	50.5	40.1	34.3	23.0	19.3	9.88
1.80V	174	104	62.7	48.6	38.8	33.2	22.4	18.8	9.65
1.85V	161	96	58.7	45.8	36.7	31.7	21.4	18.0	9.31



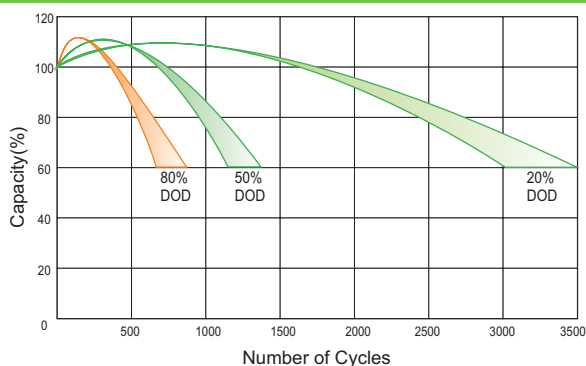
Charge Characteristic Curve for Cycle Use(IUUU)



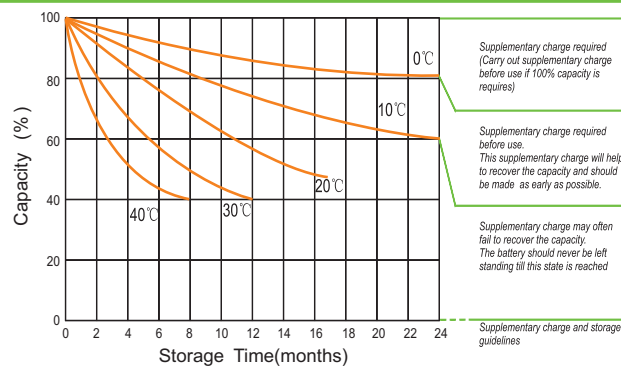
Charge Characteristic Curve For Cycle Use(IUI)



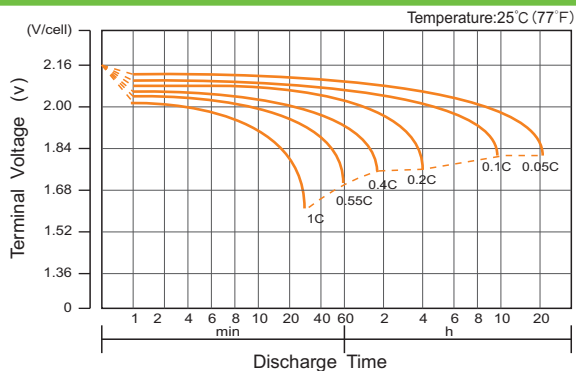
Cycle Life in Relation to Depth of Discharge



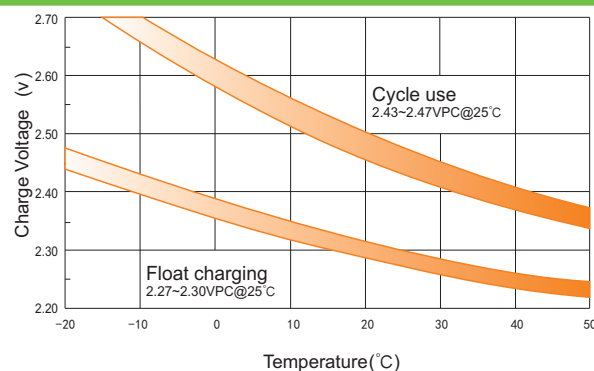
Storage Characteristics



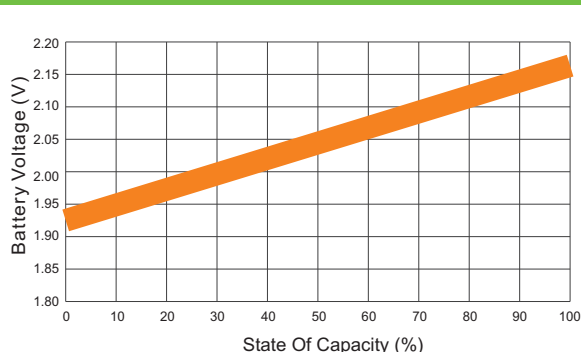
Discharge Characteristics Curve



Relationship Between Charging Voltage and Temperature



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



Temperature Effects on Capacity

