

CBEV-31-DT

Specification

Cells Per Unit	6
Voltage Per Unit	12V
Capacity	115Ah@20hour-rate to 1.75V per cell @25°C
Weight	Approx. 33.2 Kg (Tolerance ±5%)
Internal Resistance	≤4.8 mΩ (Full Charge Condition @25°C)
Terminal	F22(M8)
Max. Discharge Current	1150A (5 sec)
Cold Cranking Ampere(CCA)	950A
Maxi. Charging Current	34.5A
Reference Capacity	C ₃ 82.5Ah C ₅ 93.5Ah C ₁₀ 105.0Ah C ₂₀ 115.0Ah
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	CONTINENTAL 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.

CBEV 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. 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.



ISO 9001

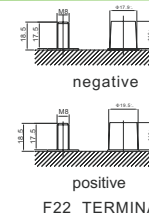
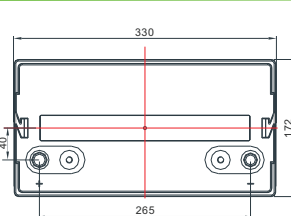
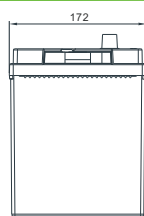


ISO 14001



ISO 45001

Dimensions



Length	330±2mm (13.0 inches)
Width	172±2mm (6.77 inches)
Height	214±2mm (8.43 inches)
Total Height	232±2mm (9.13 inches)
Terminal	Value
M5	6~7 N•m
M6	8~10 N•m
M8	10~12 N•m

Unit: mm

If F22 terminal is selected, terminal torque :AP is 5.6~7.9 N•m / M8 Stud is 6.6~8.5N•m

Constant Current Discharge Characteristics : A(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	277.3	215.9	128.5	70.3	41.7	31.1	24.4	20.8	13.7	11.1	5.99
1.65V	262.0	206.4	123.3	67.9	40.3	30.1	23.8	20.3	13.6	11.0	5.89
1.70V	241.2	193.3	117.9	65.6	39.0	29.3	23.1	19.7	13.4	10.8	5.82
1.75V	220.8	179.9	112.7	63.2	37.6	28.4	22.5	19.2	13.2	10.7	5.75
1.80V	199.9	166.1	107.7	60.8	36.3	27.5	21.9	18.7	13.0	10.5	5.69
1.85V	163.4	137.8	92.7	54.6	33.3	25.5	20.3	17.5	12.2	9.91	5.40

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

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	471.4	377.4	233.3	132.0	79.0	59.3	46.9	40.1	26.8	21.8	11.8
1.65V	454.0	366.1	226.3	128.2	76.8	57.8	45.8	39.2	26.6	21.6	11.6
1.70V	425.6	348.1	218.5	124.8	74.7	56.4	44.7	38.3	26.2	21.3	11.5
1.75V	396.6	328.6	211.0	121.0	72.4	55.0	43.8	37.5	25.9	21.0	11.4
1.80V	365.3	307.7	203.7	117.1	70.2	53.5	42.7	36.6	25.5	20.8	11.3
1.85V	303.8	259.0	177.2	105.6	64.7	49.7	39.8	34.3	24.0	19.6	10.7

(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.

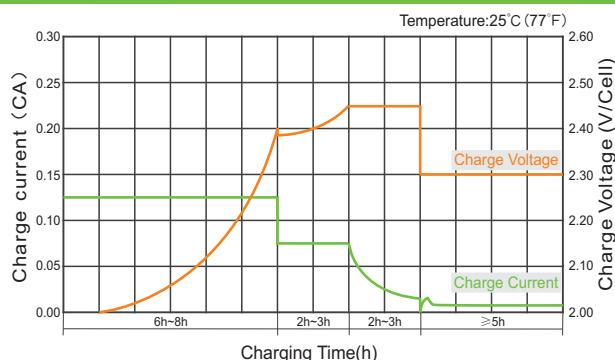
If F22 terminal is selected and the discharge current is more than 0.25C, the threaded terminal of terminal F22 shall not be used in connection, but the lead pole shall be connected.



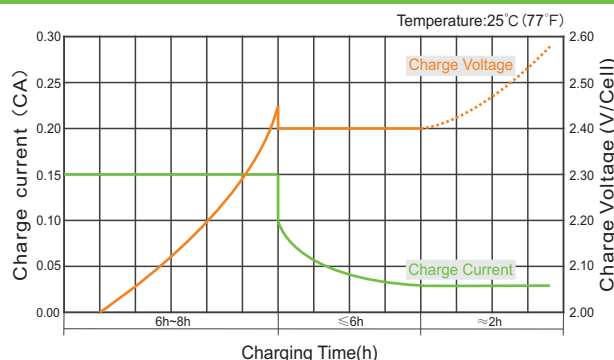
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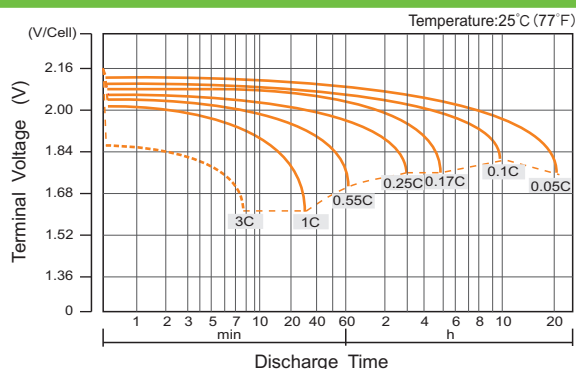
Charge Characteristic Curve for Cycle Use(IUUU)



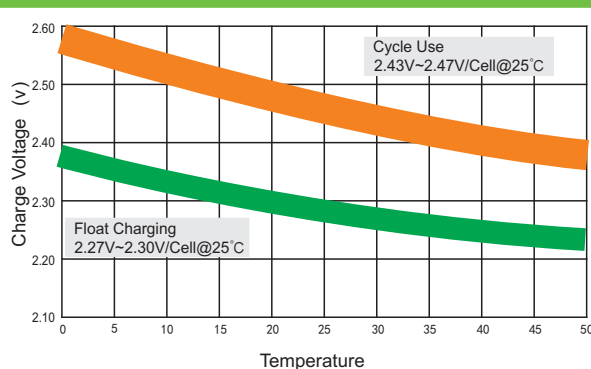
Charge Characteristic Curve For Cycle Use(IUI)



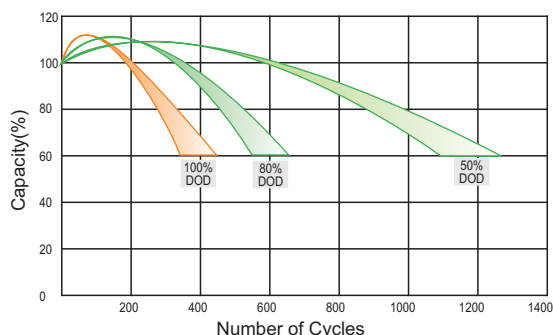
Discharge Characteristics Curve



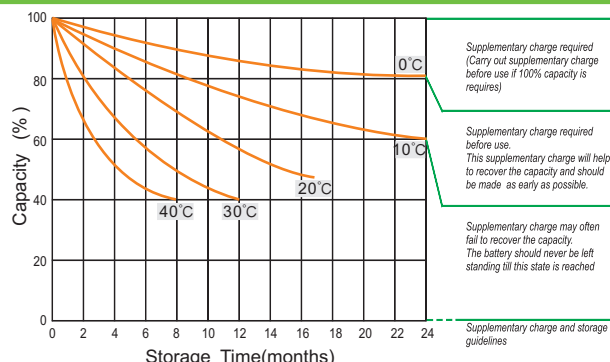
Relationship Between Charging Voltage and Temperature



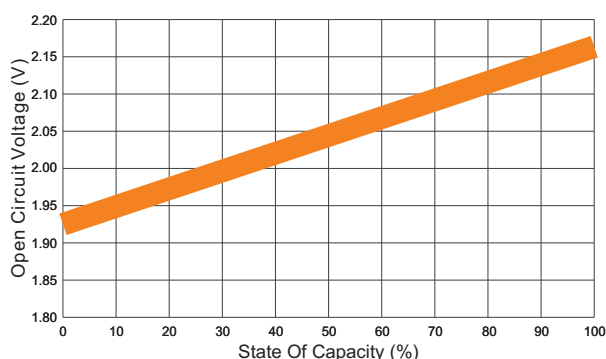
Cycle Life in Relation to Depth of Discharge



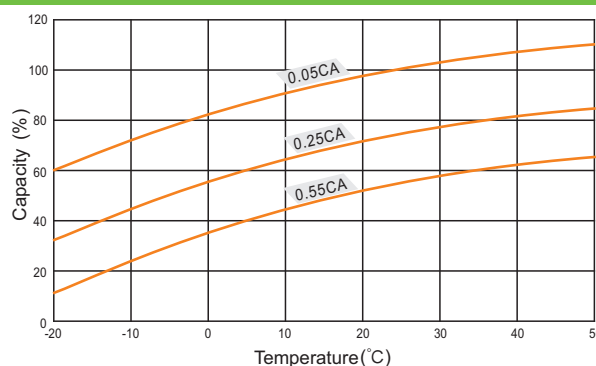
Storage Characteristics



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



Temperature Effects on Capacity



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