

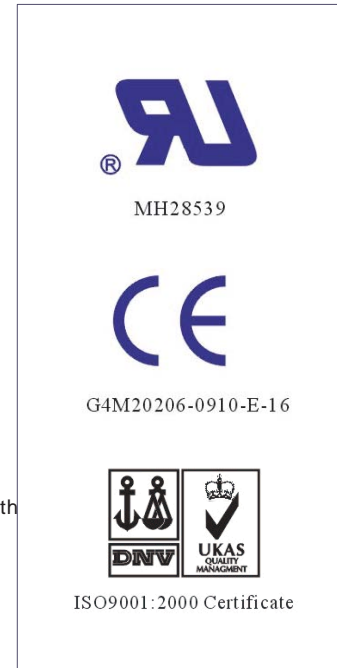
BTL 2-200 (2V200Ah)



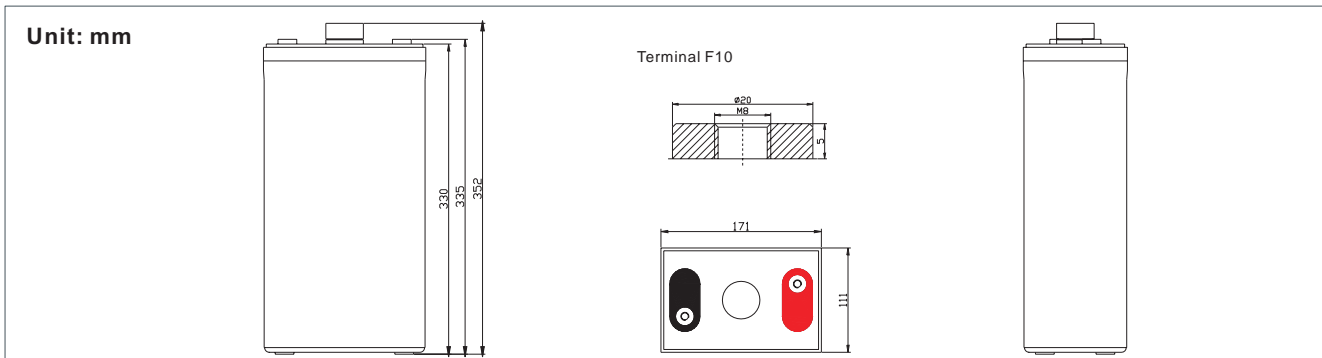
BTL 2-200 is a general purpose battery with 10~15 years expected life under normal float charge, As with all EFFEKTA batteries, all are rechargeable, highly efficient, leak proof and maintenance free.

Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	200Ah @ 10hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 15Kg
Max. Discharge Current	1000A(5sec)
Internal Resistance	Approx. 0.8mΩ
Operating Temperature Range	Discharge: -20°C~50°C Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C ± 5°C
Float charging Voltage	2.25 to 2.30 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	50A
Equalization and Cycle Service	2.40 to 2.45 VDC/unit Average at 25°C
Self Discharge	EFFEKTA batteries can be stored for more than 6 months at 25°C. Please charge batteries before using. For higher temperature, the time interval will be shorter.
Terminal	Thread insert & Bolt (F10)
Container Material	A.B.S. (UL94-HB) Flammability resistance of UL94-V1 can be available upon request.



Dimensions



Constant Current Discharge Characteristics Unit: A(25°C)

F.V/Time	5MIN	10MIN	30MIN	1HR	2HR	3HR	5HR	10HR	12HR	24HR
1.60V	545	424	220	139	83.8	63.6	41.4	21.4	18.0	9.4
1.65V	485	392	214	137	81.8	61.6	39.4	21.3	18.0	9.4
1.70V	444	364	204	131	79.8	58.6	37.4	21.2	18.0	9.1
1.75V	409	336	198	128	76.3	55.2	37.2	21.1	17.8	9.1
1.80V	362	307	191	121	73.6	54.7	36.3	20.2	17.2	9.1
1.85V	267	238	156	100	66.7	50.5	33.1	19.1	16.4	8.9

Constant Power Discharge Characteristics Unit: W(25°C)

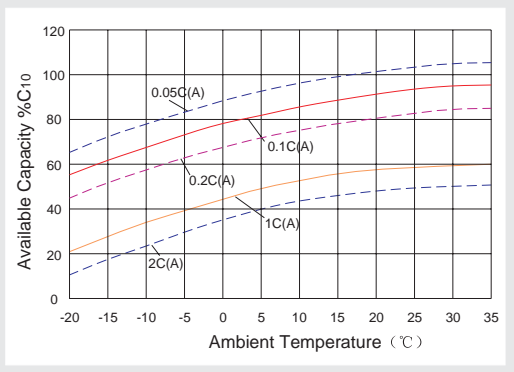
F.V/Time	5MIN	10MIN	30MIN	1HR	2HR	3HR	5HR	10HR	12HR	24HR
1.60V	896	723	413	263	162	116	76.8	41.9	35.4	18.4
1.65V	829	680	697	258	156	114	75.1	41.9	35.4	18.4
1.70V	775	630	376	249	150	110	73.7	40.4	33.8	18.2
1.75V	715	602	364	243	147	106	71.9	40.2	33.8	18.2
1.80V	648	552	313	211	142	105	70.7	39.8	33.8	18.2
1.85V	497	445	305	196	129	98.0	64.6	37.4	32.3	17.2

All mentioned values are average values.

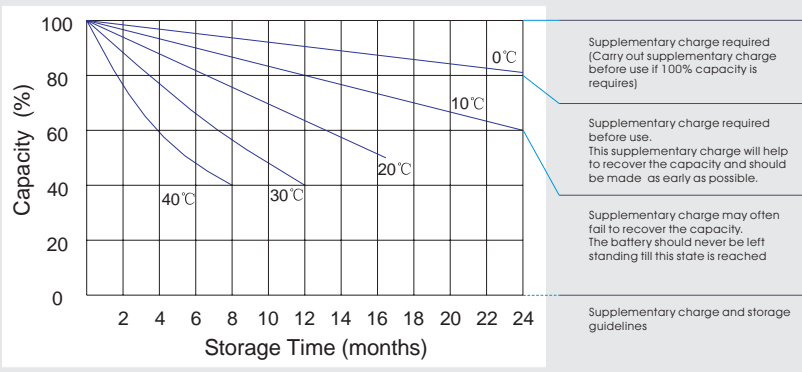
BTL 2-200

2V200Ah

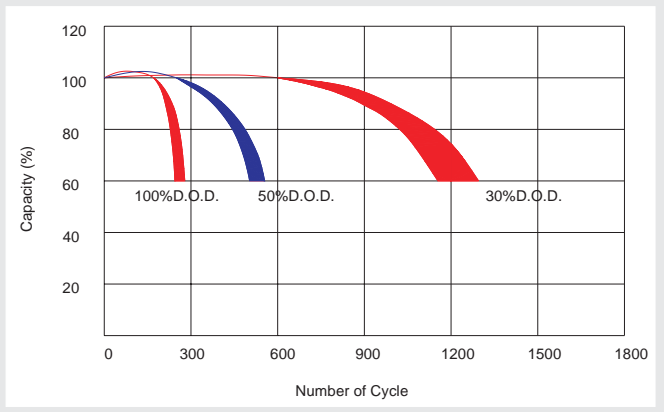
Temperature effects curve



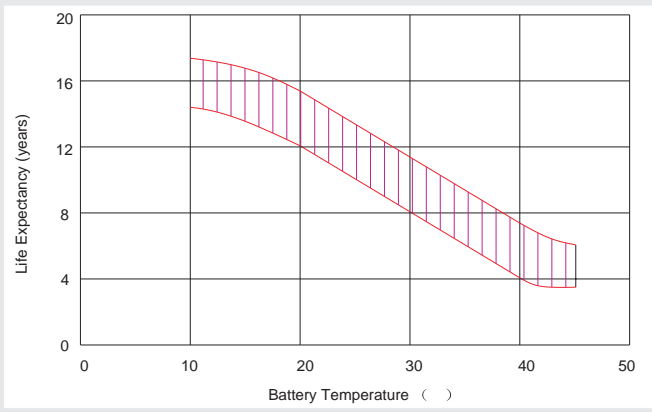
Storage characteristic



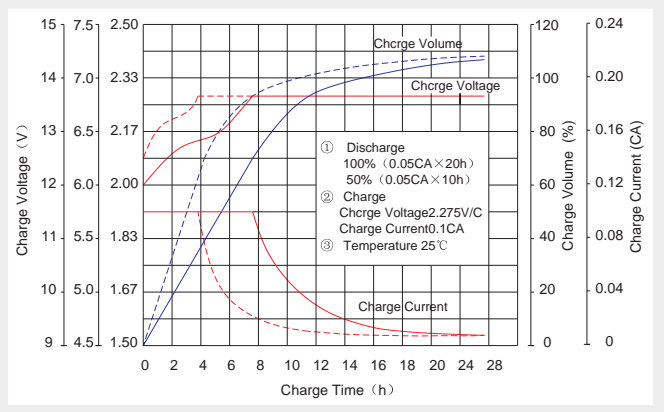
Life characteristics of cyclic use



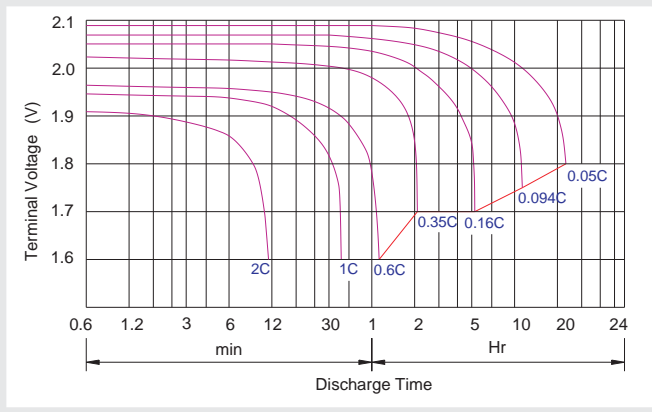
Effect of temperature on long term float life



Charge characteristic Curve for standby use



Discharge characteristic Curve



Charging Procedures(12V series)

Application	Charge Voltage (V)			Max. Charge Current
	Temperature	Set point	Allowable range	
Cycle Use	25°C	14.7	14.4~15.0	0.3C
Standby	25°C	13.7	13.6~13.8	0.3C

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤ 0.2C	0.2C < (A) < 1.0C	(A) ≥ 1.0C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	2.25~2.50V, 5~11h, Max. Current 0.1CA
Constant Current	0.1CA × 5h
Fast	0.3CA × 1.7h

Charging Procedures(2V series)

Application	Charge Voltage (V)			Max. Charge Current
	Temperature	Set point	Allowable range	
Cycle Use	25°C	2.275	2.25~2.30	0.3C
Standby	25°C	2.425	2.4~2.45	0.3C