

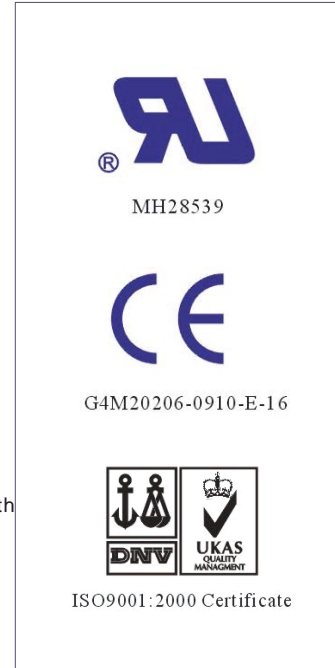
BTL 2-2000 (2V2000Ah)



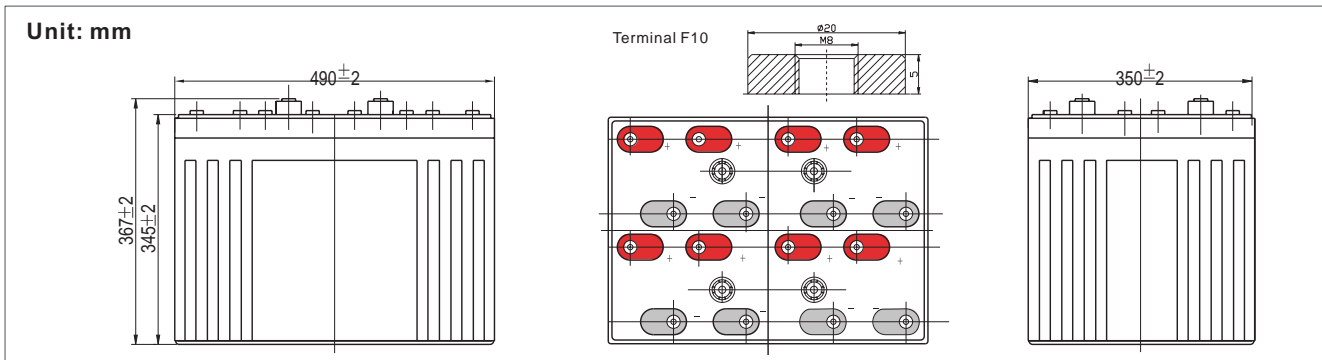
BTL 2-2000 is a general purpose battery with 10~15 years expected life under normal float charge, As with all EFFEKTA batteries, all are rechargeable, highly efficient, leak proof and maintenance free.

Specification

Cells Per Unit	1
Voltage Per Unit	2
Capacity	2000Ah @ 10hr-rate to 1.75V per cell @ 25°C
Weight	Approx. 132Kg
Max. Discharge Current	5000A(5sec)
Internal Resistance	Approx. 0.5mΩ
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	500A
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	5414	4211	2185	1383	832	632	411	213	178	93.2
1.65V	4812	3890	2125	1363	812	612	391	212	178	93.2
1.70V	4411	3609	2025	1303	792	581	371	211	178	90.2
1.75V	4060	3338	1965	1273	757	548	369	210	176	90.2
1.80V	3589	3048	1895	1203	731	543	360	201	170	90.2
1.85V	2647	2366	1544	992	662	501	329	189	162	88.2

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

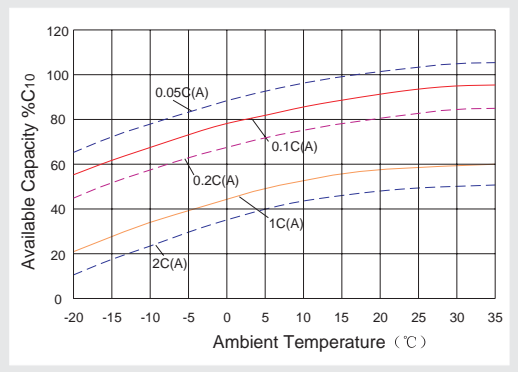
F.V/Time	5MIN	10MIN	30MIN	1HR	2HR	3HR	5HR	10HR	12HR	24HR
1.60V	8879	7167	4094	2603	1602	1151	761	415	350	182
1.65V	8218	6737	6907	2553	1542	1131	745	415	350	182
1.70V	7678	6246	3724	2472	1491	1091	731	400	335	180
1.75V	7087	5966	3604	2412	1461	1051	713	398	335	180
1.80V	6426	5475	3103	2092	1411	1041	701	394	335	180
1.85V	4925	4414	3023	1942	1281	971	641	370	320	170

All mentioned values are average values.

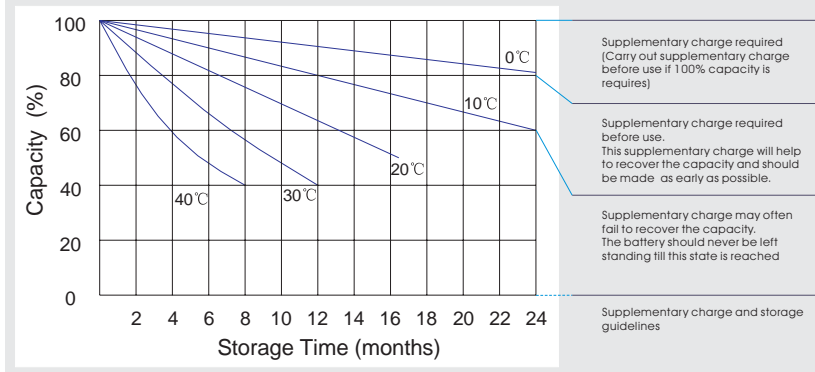
BTL 2-2000

2V2000Ah

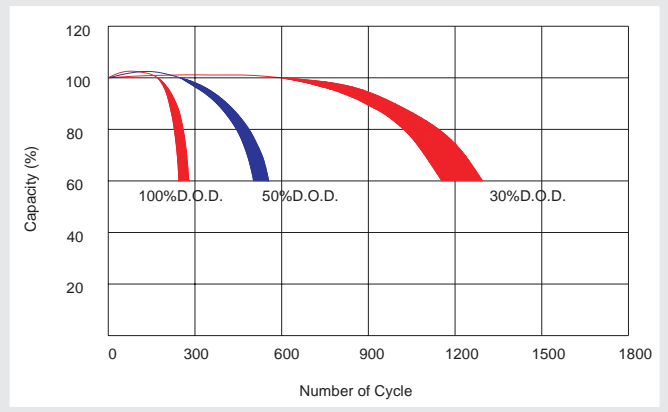
Temperature effects curve



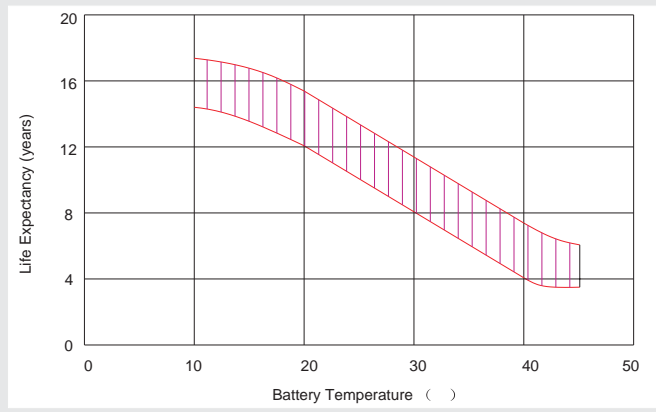
Storage characteristic



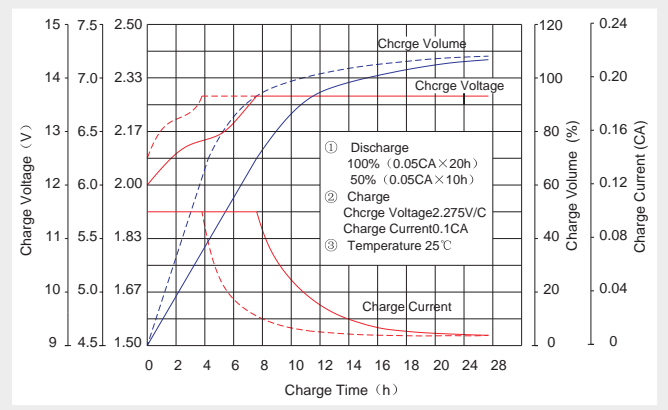
Life characteristics of cyclic use



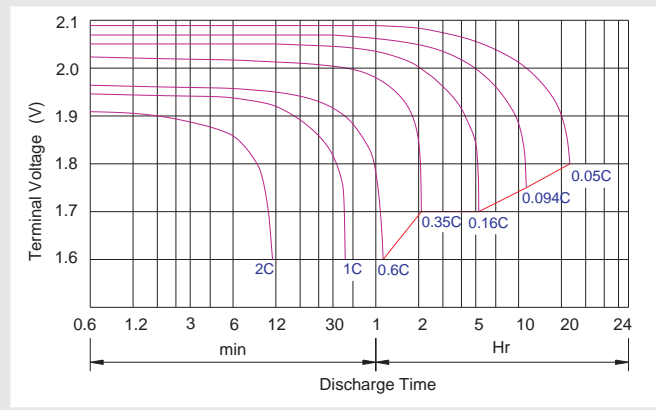
Effect of temperature on long term float life



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