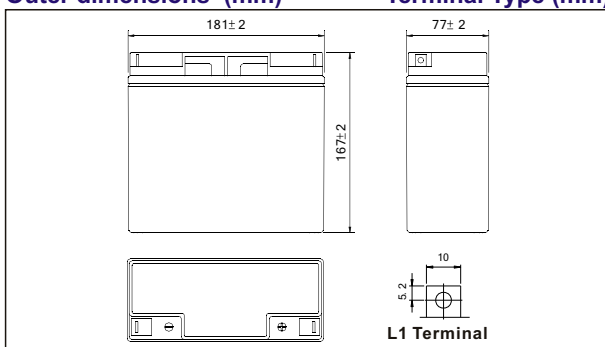


BALA1700012V is a general purpose battery with 6~8 years design life in float service. It meets with IEC and JIS standards. With up-dated AGM valve regulated technology and high purity raw materials, the battery has reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security systems applications.



Outer dimensions (mm)

Terminal Type (mm)



Characteristics

capacity(25°C)	20HR	17.00AH
	10HR	15.90AH
	5HR	14.80AH
Terminal type		L1
Inner resistance (fully charged, 25°C)		Approx. 16mΩ
Capacity affected by temperature	40°C	102%
	25°C	100%
	0°C	85%
	15°C	65%
Self-discharge (25°C)	3 months	Remaining Capacity:91%
	6 months	Remaining Capacity:82%
	12 months	Remaining Capacity:65%
Nominal operating temperature		25°C±3°C(77°F±5°F)
Operating temperature range	Discharge	-15°C~50°C(5°F~122°F)
	Charge	-10°C~50°C(14°F~122°F)
	Storage	-20°C~50°C(-4°F~122°F)
Maximum charge current		5.1A
Maximum discharge current		170A(5 sec.)
Designed life		6~8 years

Specifications

Nominal Voltage		12V
Rated capacity (20 hr to 1.75V per cell @ 25°C)		17Ah
Dimensions	Length	181±2mm(7.13 inch)
	Width	77±2mm(3.03 inch)
	Height	167±2mm(6.57 inch)
	Total Height	167±2mm(6.57 inch)
Weight Approx.		4.8 kg(10.58 lbs)±3%

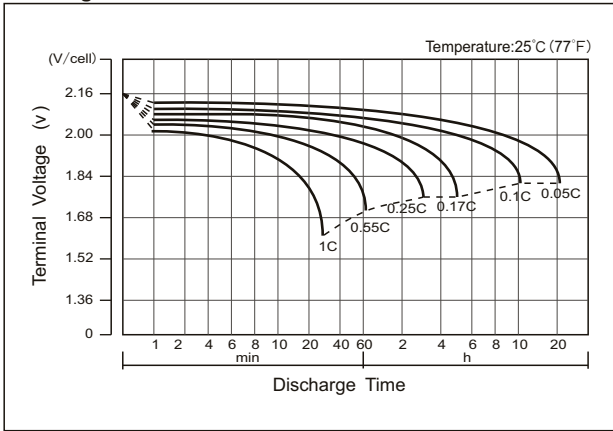
Construction

Component	Positive plate	Negative plate	Container&Cover	Separator	Electrolyte	Safety value	Terminal
Raw materail	Lead dioxide	Lead	ABS UL94-HB,UL94-V0 Optional.	AGM	Sulfuric acid	Rubber	Copper

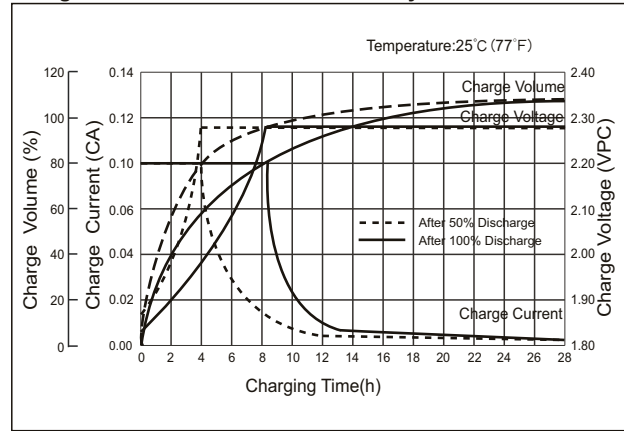
Constant Current Discharge (Amperes/cell) at 25°C (77°F)												
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	67.73	47.41	33.94	19.31	10.49	6.377	4.794	3.87	3.207	2.064	1.676	0.885
1.65V	62.98	44.8	32.45	18.53	10.13	6.174	4.646	3.766	3.124	2.041	1.656	0.871
1.70V	56.82	41.24	30.39	17.71	9.801	5.97	4.52	3.663	3.042	2.009	1.631	0.86
1.75V	50.91	37.75	28.28	16.93	9.443	5.762	4.385	3.569	2.966	1.982	1.609	0.85
1.80V	44.7	34.17	26.11	16.18	9.082	5.555	4.249	3.467	2.889	1.948	1.589	0.842
1.85V	35.48	27.93	21.67	13.94	8.145	5.09	3.928	3.222	2.694	1.829	1.496	0.799
Constant Power Discharge (watts/cell) at 25°C (77°F)												
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	112.3	80.58	59.34	35.06	19.71	12.09	9.156	7.431	6.181	4.031	3.295	1.743
1.65V	105.6	77.62	57.57	34.02	19.15	11.76	8.911	7.256	6.044	3.994	3.259	1.718
1.70V	97.45	72.77	54.72	32.84	18.64	11.43	8.707	7.086	5.907	3.941	3.215	1.699
1.75V	89.25	67.81	51.67	31.71	18.07	11.08	8.484	6.931	5.778	3.894	3.176	1.68
1.80V	80.04	62.45	48.38	30.62	17.48	10.74	8.253	6.756	5.649	3.837	3.14	1.666
1.85V	64.87	51.95	40.72	26.63	15.77	9.896	7.664	6.303	5.285	3.61	2.96	1.584

The above characteristics represent average values and can be obtained within three charge and discharge cycles. The batteries must be fully charged before testing. The data in this document is subject to change without notice. Please contact NEDIS for the latest available version.

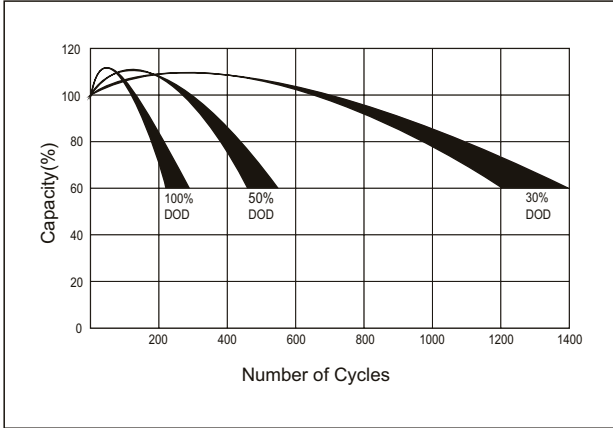
Discharge Characteristics Curve



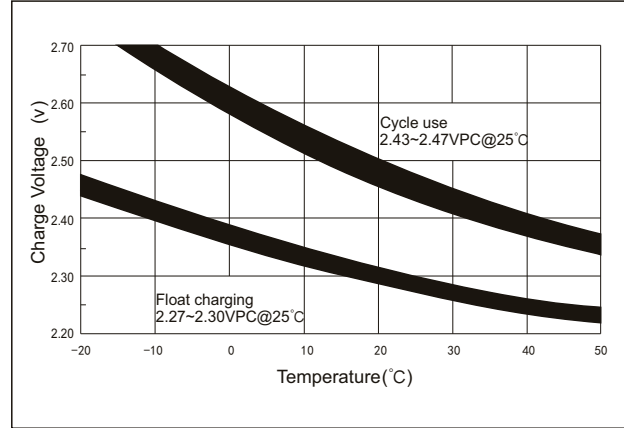
Charge Characteristic Curve for Standby Use



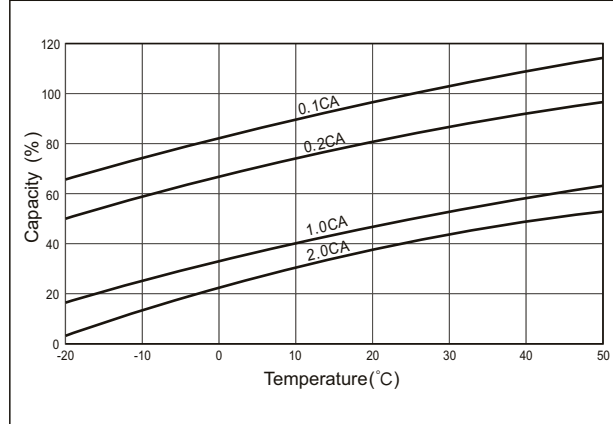
Cycle Life in Relation to Depth of Discharge



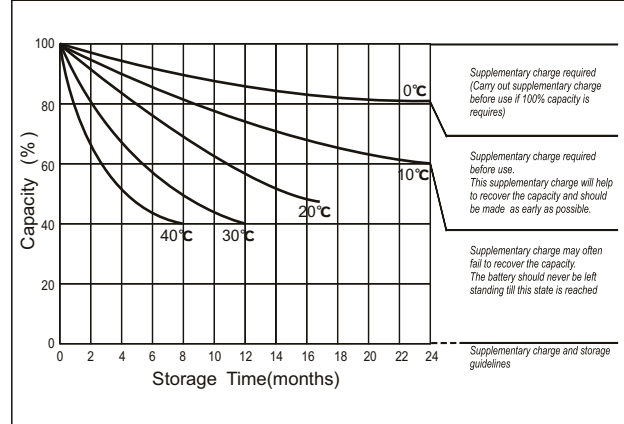
Relationship Between Charging Voltage and Temperature



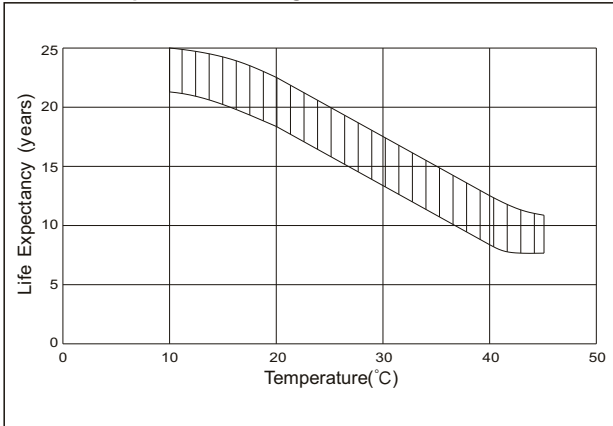
Temperature Effects On Capacity



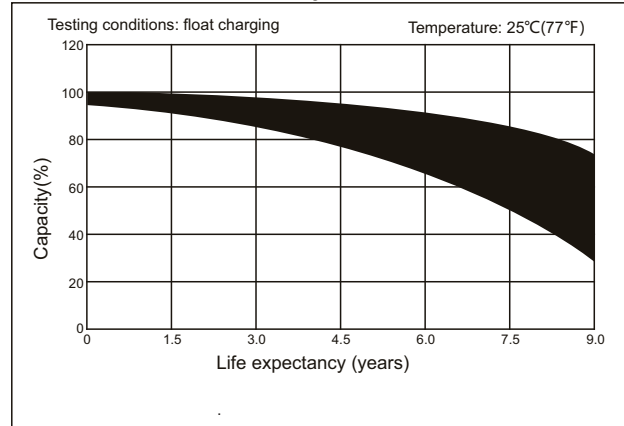
Storage Characteristics



Effect of Temperature on Long Term Life



Life Characteristics of Standby Use



Please note that all information above is subject to change without prior notice. NEDIS reserve the right to explain and update latest information.

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