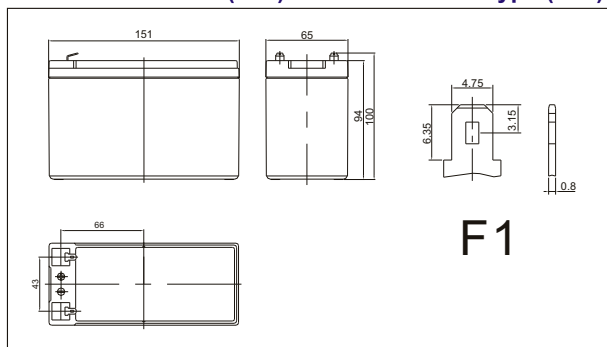


BALA900012V is a general purpose battery with 6~8 years design life in float service. It meets with IEC and JIS standards. With up-dated AGM valve regulated technology and high purity raw materials, the battery has reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security systems applications.



Outer dimensions (mm) Terminal Type (mm)



Specifications

Nominal Voltage	12V	
Rated capacity (20 hr to 1.75V per cell @ 25°C)	9Ah	
Dimensions	Length	151±1.5mm(5.94 inch)
	Width	65±1.5mm(2.56 inch)
	Height	94±1.5mm(3.70 inch)
	Total Height	100±1.5mm(3.94 inch)
Weight Approx.	2.3 kg(5.07 lbs)±3%	

Characteristics

Capacity (25°C)	20HR(10.5V)	9.00Ah
	10HR(10.5V)	7.48Ah
	5HR(9.60V)	6.98Ah
Terminal type		F1
Internal resistance (Fully charged, 25°C)		Approx. 25 mΩ
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 charging current		2.7A
Maximum discharge current		90A(5 sec.)
Design floating life		6-8 years

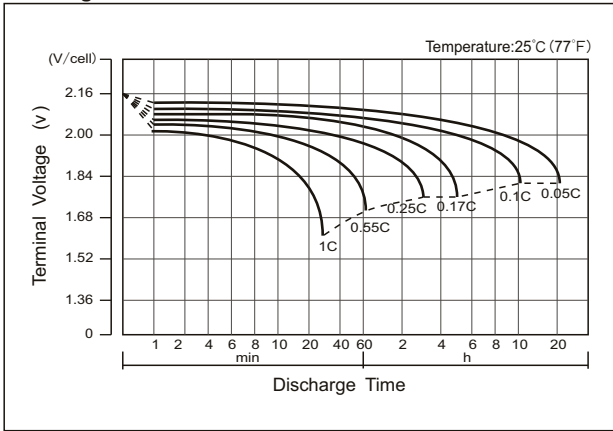
Construction

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

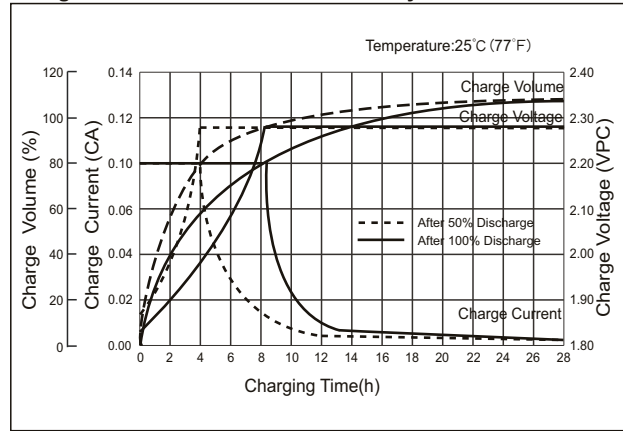
Constant Current Discharge (Amperes/cell) at 25°C(77°F)												
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	30.35	21.45	15.51	8.907	4.888	3.001	2.256	1.821	1.509	0.971	0.789	0.417
1.65V	28.23	20.27	14.83	8.551	4.72	2.905	2.186	1.772	1.47	0.96	0.779	0.41
1.70V	25.47	18.66	13.89	8.173	4.567	2.81	2.127	1.724	1.432	0.946	0.767	0.405
1.75V	22.82	17.08	12.92	7.812	4.4	2.711	2.063	1.68	1.396	0.932	0.757	0.4
1.80V	20.03	15.46	11.93	7.466	4.231	2.614	2	1.632	1.36	0.917	0.748	0.396
1.85V	15.9	12.64	9.901	6.43	3.795	2.395	1.849	1.516	1.268	0.86	0.704	0.376
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	50.32	36.46	27.11	16.18	9.185	5.688	4.309	3.497	2.909	1.897	1.551	0.82
1.65V	47.33	35.12	26.3	15.69	8.921	5.533	4.193	3.415	2.844	1.879	1.534	0.808
1.70V	43.68	32.93	25	15.15	8.685	5.38	4.098	3.334	2.78	1.855	1.513	0.8
1.75V	40	30.68	23.61	14.63	8.418	5.216	3.992	3.261	2.719	1.833	1.495	0.791
1.80V	35.87	28.26	22.1	14.12	8.143	5.055	3.884	3.179	2.658	1.806	1.477	0.784
1.85V	29.07	23.51	18.6	12.29	7.348	4.657	3.607	2.966	2.487	1.699	1.393	0.745

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.

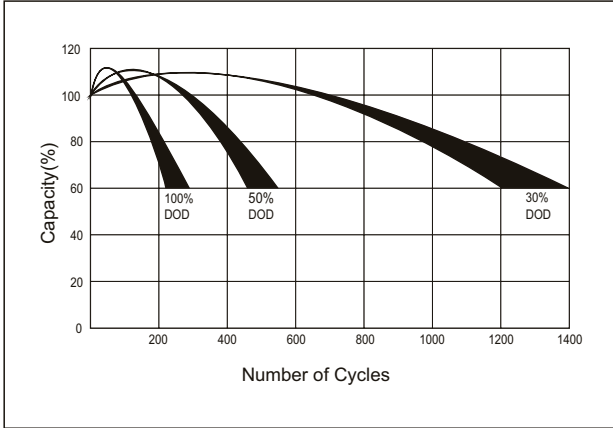
Discharge Characteristics Curve



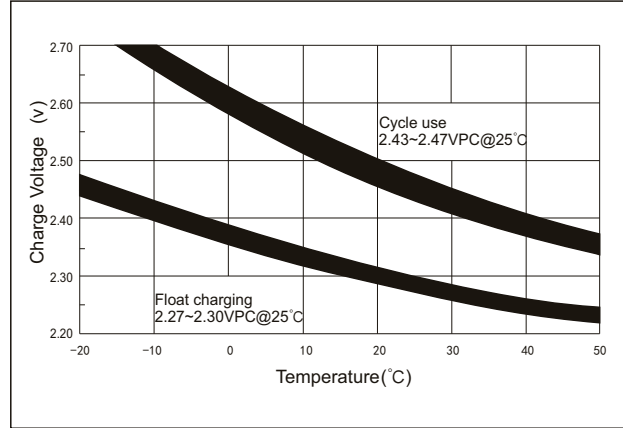
Charge Characteristic Curve for Standby Use



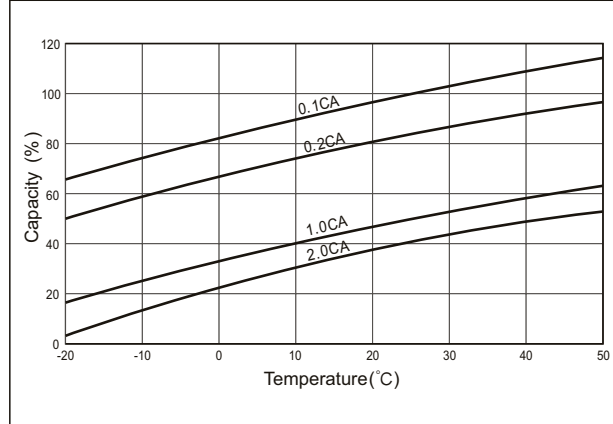
Cycle Life in Relation to Depth of Discharge



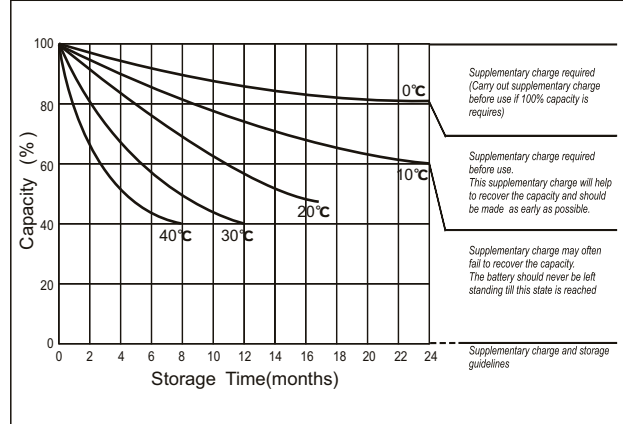
Relationship Between Charging Voltage and Temperature



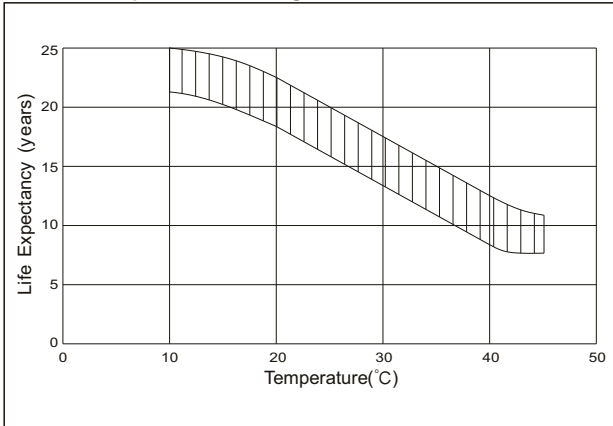
Temperature Effects On Capacity



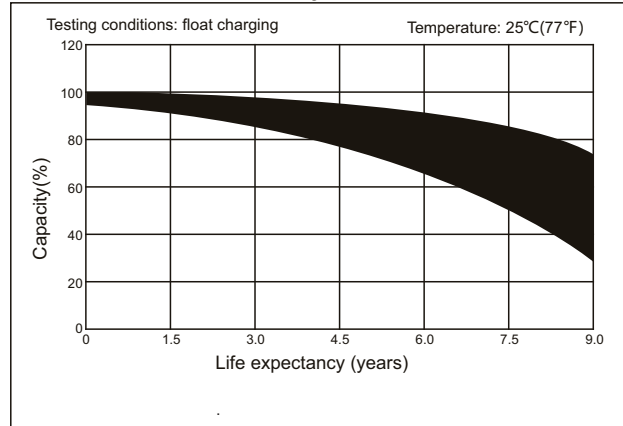
Storage Characteristics



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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