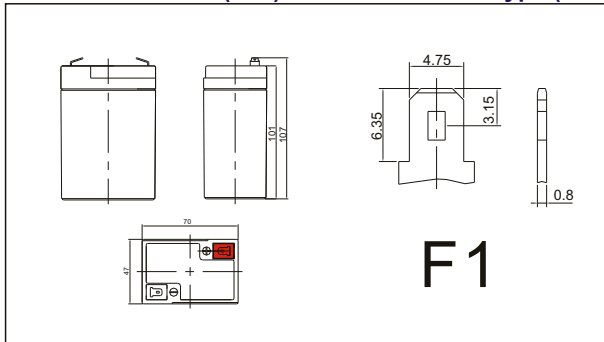


BALA40006V is a general purpose battery with 6~8 years design life in float service. It meets with IEC and JIS standards. With up-dated AGM valve regulated technology and high purity raw materials, the battery has reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security systems applications.



Outer dimensions (mm)

Terminal Type (mm)



Specifications

Nominal Voltage		6V
Rated capacity (20 hr to 1.75V per cell @ 25°C)		4Ah
Dimensions	Length	70±1.5mm(2.76 inch)
	Width	47±1.5mm(1.85 inch)
	Height	101±1.5mm(3.98 inch)
	Total Height	107±1.5mm(4.21 inch)
Weight Approx.		0.58 kg(1.28 lbs)±3%

Characteristics

capacity(25°C)	20HR(5.25V)	4.00AH
	10HR(5.25V)	3.74AH
	5HR(4.8V)	3.49AH
Terminal type		F1
Inner resistance (fully charged, 25°C)		Approx. 35mΩ
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		1.2A
Maximum discharge current		40A(5 sec.)
Designed life		6~8 years

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)

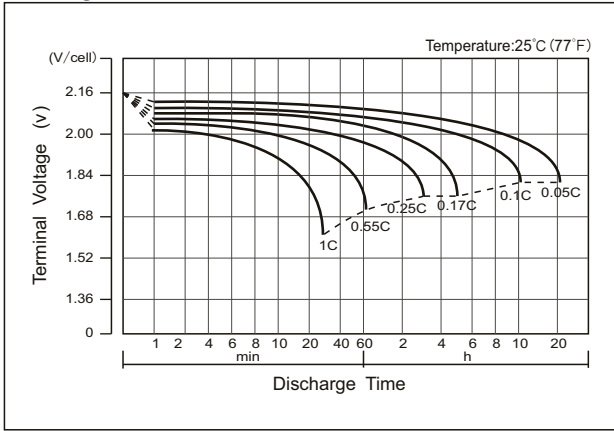
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	15.180	10.730	7.753	4.453	2.444	1.501	1.128	0.911	0.755	0.486	0.394	0.208
1.65V	14.110	10.140	7.413	4.275	2.360	1.453	1.093	0.886	0.735	0.480	0.390	0.205
1.70V	12.730	9.331	6.943	4.086	2.283	1.405	1.063	0.862	0.716	0.473	0.384	0.202
1.75V	11.410	8.541	6.461	3.906	2.200	1.356	1.032	0.840	0.698	0.466	0.379	0.200
1.80V	10.020	7.731	5.966	3.733	2.116	1.307	1.000	0.816	0.680	0.458	0.374	0.198
1.85V	7.951	6.319	4.950	3.215	1.898	1.198	0.924	0.758	0.634	0.430	0.352	0.188

Constant Power Discharge (watts/cell) at 25 °C(77 °F)

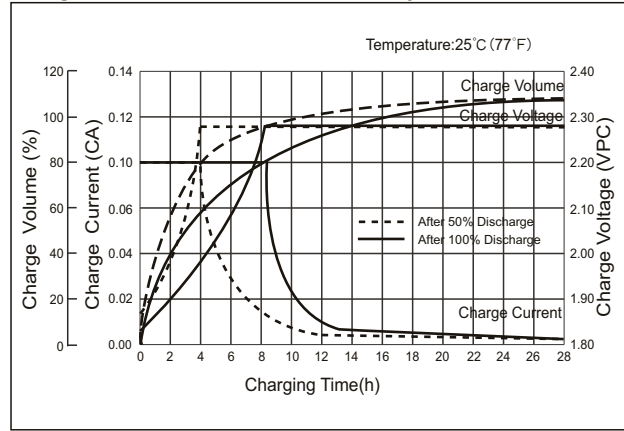
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	25.160	18.230	13.550	8.089	4.592	2.844	2.154	1.748	1.454	0.948	0.775	0.410
1.65V	23.670	17.560	13.150	7.847	4.461	2.767	2.097	1.707	1.422	0.940	0.767	0.404
1.70V	21.840	16.460	12.500	7.576	4.342	2.690	2.049	1.667	1.390	0.927	0.756	0.400
1.75V	20.000	15.340	11.800	7.315	4.209	2.608	1.996	1.631	1.360	0.916	0.747	0.395
1.80V	17.940	14.130	11.050	7.062	4.072	2.528	1.942	1.590	1.329	0.903	0.739	0.392
1.85V	14.540	11.750	9.301	6.143	3.674	2.328	1.803	1.483	1.244	0.849	0.696	0.373

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.

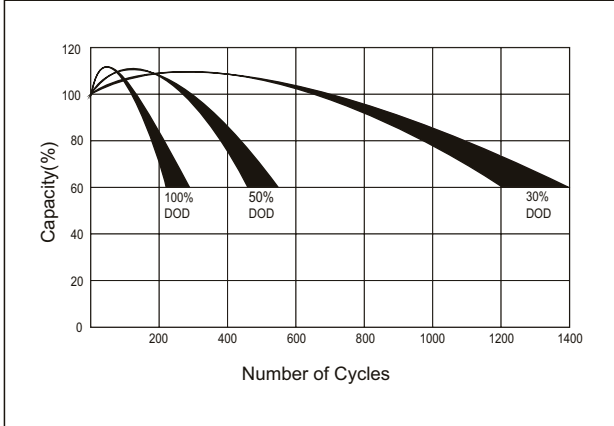
Discharge Characteristics Curve



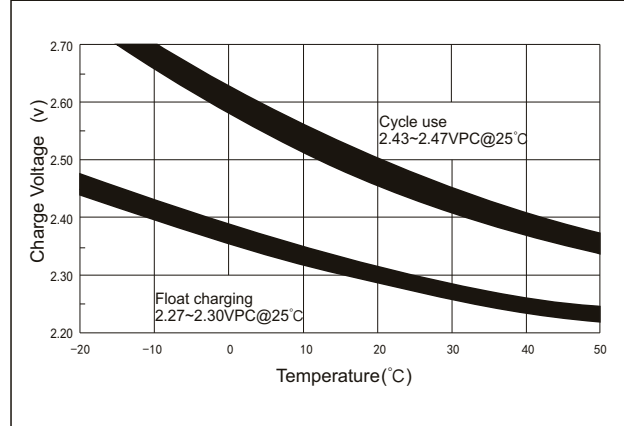
Charge Characteristic Curve for Standby Use



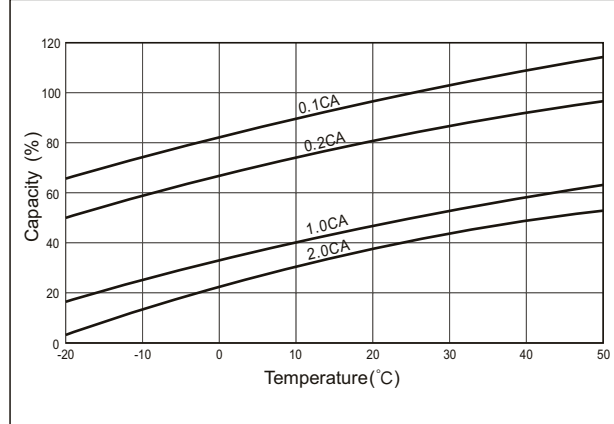
Cycle Life in Relation to Depth of Discharge



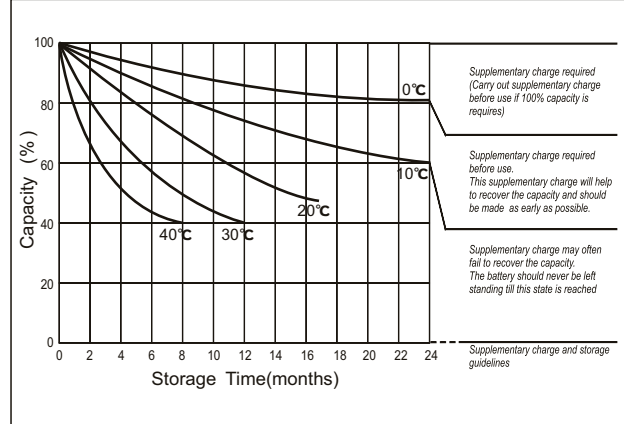
Relationship Between Charging Voltage and Temperature



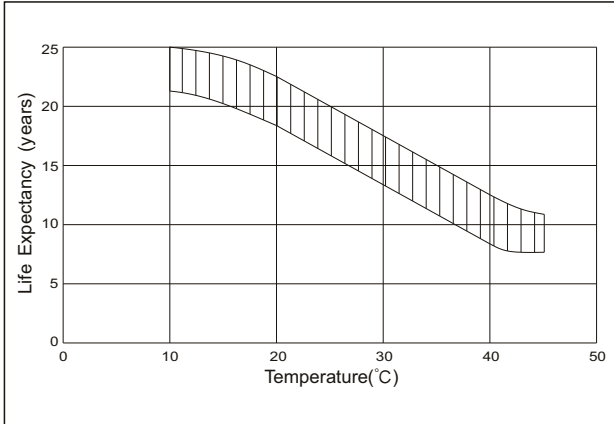
Temperature Effects On Capacity



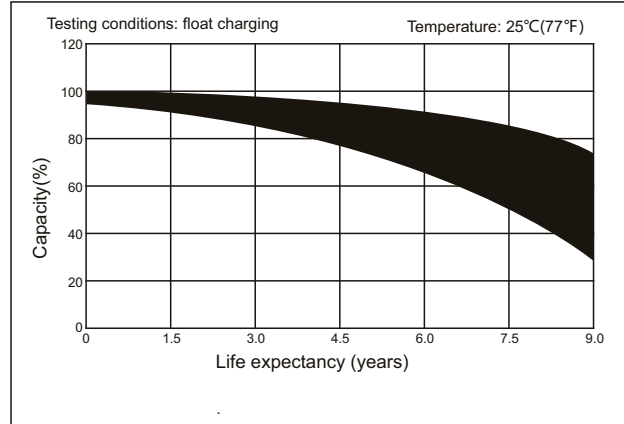
Storage Characteristics



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.

Nedis BV

De Tweeling 28, 5215 MC 's-Hertogenbosch the Netherlands
www.nedis.com service@nedis.com

