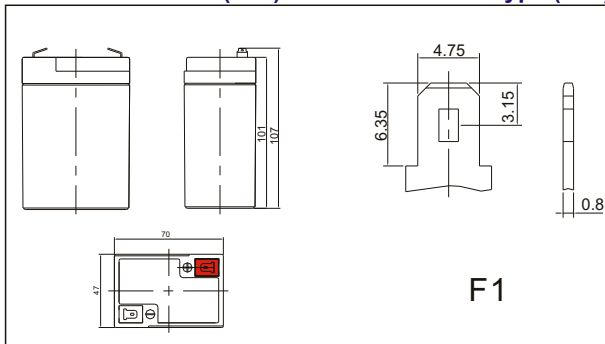


BALA45006V is a general purpose battery with 6~8 years design life in float service. It meets with IEC and JIS standards. With up-dated AGM valve regulated technology and high purity raw materials, the battery has reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency 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)	4.5Ah	
Dimensions	Length	70±1mm(2.76 inch)
	Width	47±1mm(1.85 inch)
	Height	101±1mm(3.98 inch)
	Total Height	107±1mm(4.21 inch)
Weight Approx.	0.68 kg(1.50 lbs)±3%	

### Characteristics

capacity(25°C)	20HR(5.25V)	4.50AH
	10HR(5.25V)	4.21AH
	5HR(4.8V)	3.93AH
Terminal type		F1
Inner resistance (fully charged, 25°C)		Approx. 19mΩ
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		1.35A
Maximum discharge current		45A(5 sec.)
Designed life		6~8 years

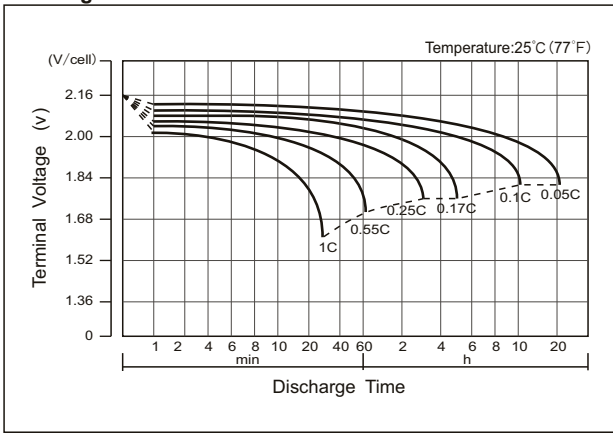
### Construction

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

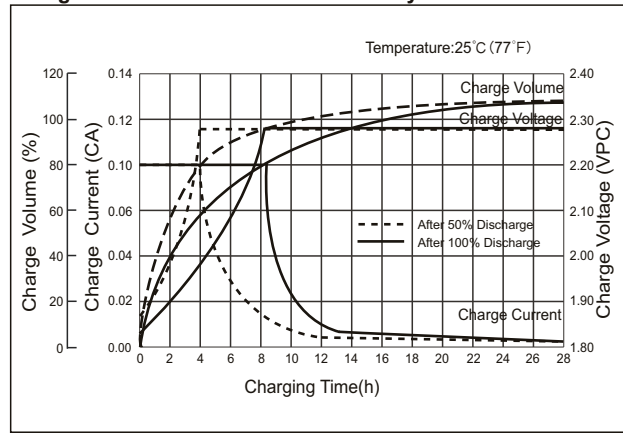
Constant Current Discharge (Amperes/cell) at 25°C (77°F)												
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	17.07	12.07	8.723	5.01	2.749	1.688	1.269	1.025	0.849	0.546	0.444	0.234
1.65V	15.88	11.4	8.339	4.81	2.655	1.634	1.23	0.997	0.827	0.54	0.438	0.231
1.70V	14.33	10.5	7.811	4.597	2.569	1.58	1.196	0.97	0.805	0.532	0.432	0.228
1.75V	12.83	9.609	7.268	4.394	2.475	1.525	1.161	0.945	0.785	0.525	0.426	0.225
1.80V	11.27	8.698	6.711	4.2	2.38	1.471	1.125	0.918	0.765	0.516	0.421	0.223
1.85V	8.945	7.108	5.569	3.617	2.135	1.347	1.04	0.853	0.713	0.484	0.396	0.212
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	28.3	20.51	15.25	9.1	5.167	3.199	2.424	1.967	1.636	1.067	0.872	0.461
1.65V	26.62	19.76	14.79	8.828	5.018	3.112	2.359	1.921	1.6	1.057	0.863	0.455
1.70V	24.57	18.52	14.06	8.522	4.885	3.026	2.305	1.876	1.564	1.043	0.851	0.45
1.75V	22.5	17.26	13.28	8.229	4.735	2.934	2.246	1.835	1.529	1.031	0.841	0.445
1.80V	20.18	15.9	12.43	7.945	4.58	2.843	2.185	1.788	1.495	1.016	0.831	0.441
1.85V	16.35	13.22	10.46	6.911	4.133	2.619	2.029	1.668	1.399	0.956	0.783	0.419

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.

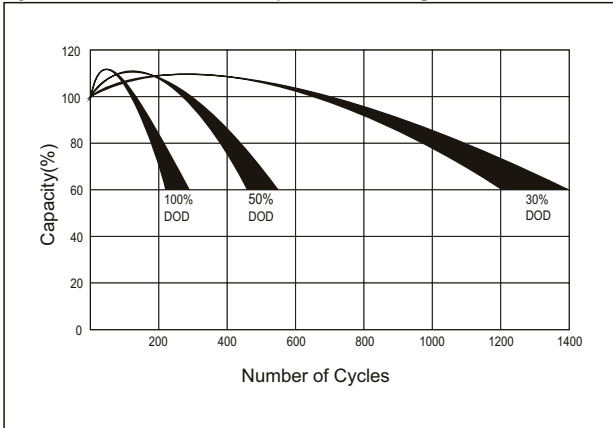
### Discharge Characteristics Curve



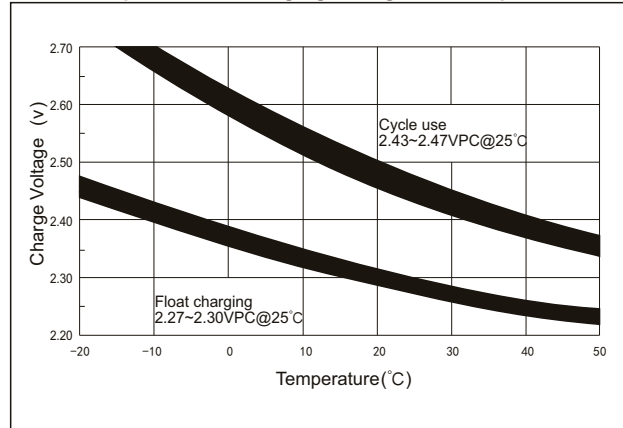
### Charge Characteristic Curve for Standby Use



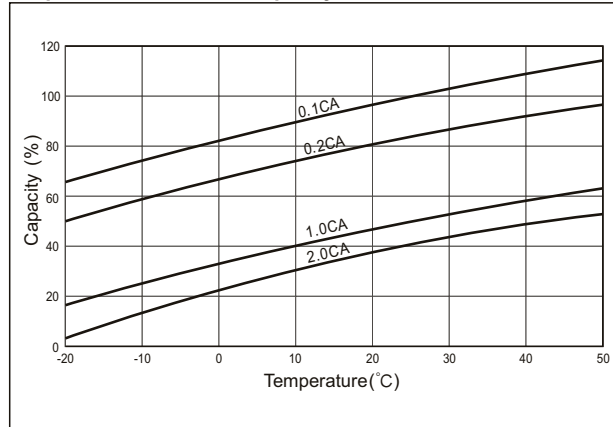
### Cycle Life in Relation to Depth of Discharge



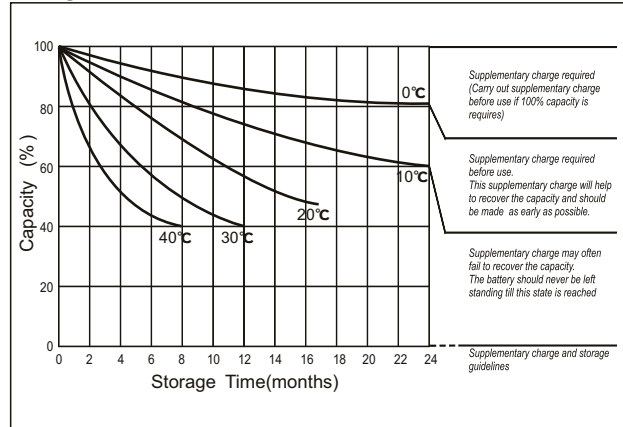
### Relationship Between Charging Voltage and Temperature



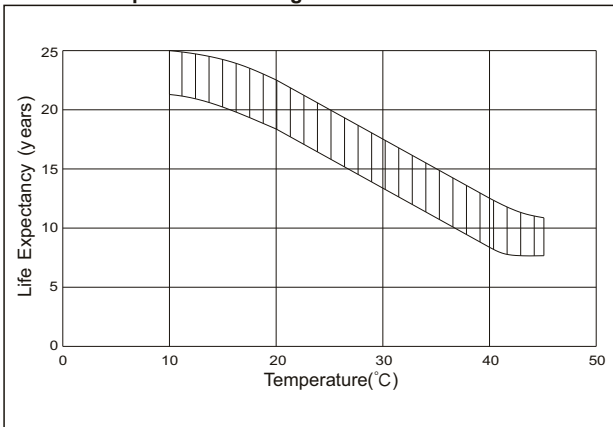
### Temperature Effects On Capacity



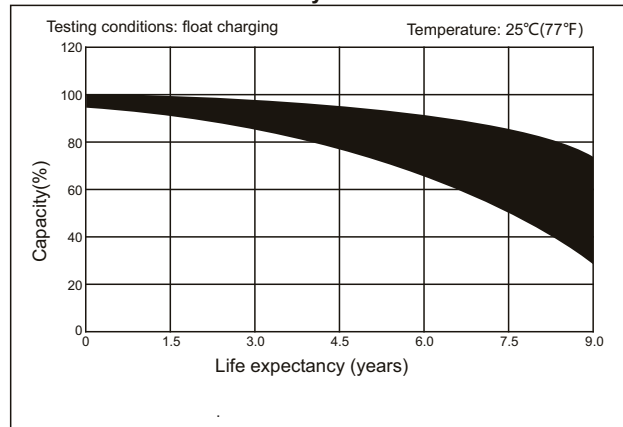
### Storage Characteristics



### 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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