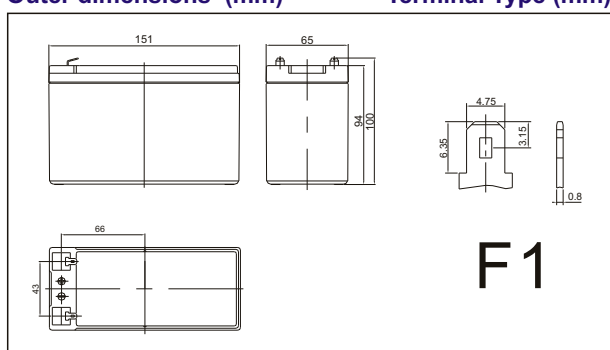


BALA720012V is a general purpose battery with 6~8 years design life in float service. It meets with IEC and JIS standards. With up-dated AGM valve regulated technology and high purity raw materials, the battery has reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency 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)		7.2Ah
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.		1.9 kg(4.19 lbs)±3%

Characteristics

capacity(25°C)	20HR(10.5V)	7.20AH
	10HR(10.5V)	5.45AH
	5HR(9.6V)	4.11AH
Terminal type		F1
Inner resistance (fully charged, 25°C)		Approx. 39mΩ
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		2.16A
Maximum discharge current		72A(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)

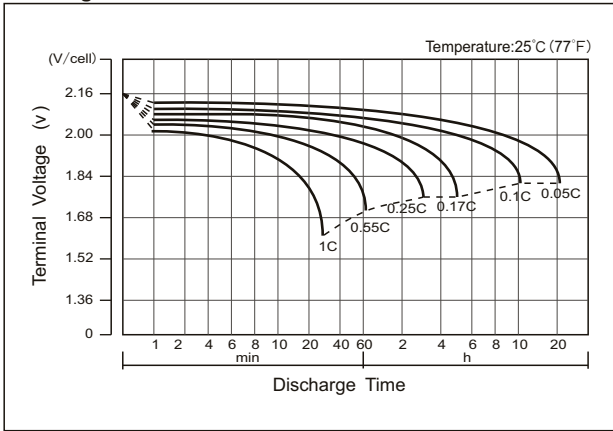
END VOL. /CELL	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	23.88	16.8	12.72	7.18	4.34	1.824	1.188	0.628	0.326
1.65V	22.68	15.96	12.12	6.9	4.26	1.764	1.152	0.617	0.32
1.70V	21.36	15.12	11.51	6.6	4.15	1.704	1.128	0.605	0.313
1.75V	20.04	14.16	10.88	6.26	3.97	1.632	1.092	0.596	0.3
1.80V	18.72	13.44	10.27	5.95	3.78	1.56	1.056	0.584	0.295

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

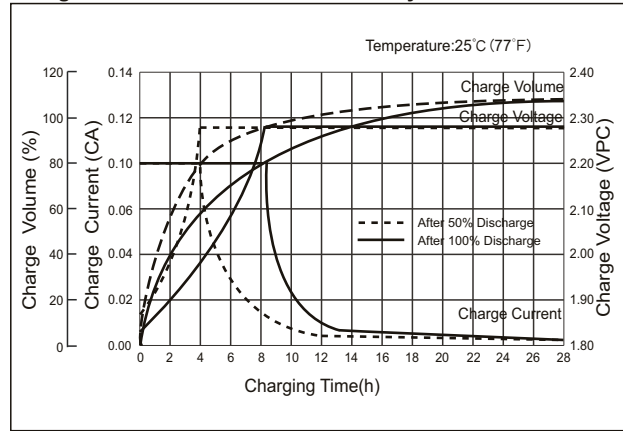
END VOL. /CELL	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	44.28	30.96	23.76	13.44	8.16	3.43	2.256	1.2	0.624
1.65V	41.88	29.4	22.44	12.84	7.96	3.31	2.184	1.176	0.612
1.70V	39.12	27.6	21.24	12.24	7.72	3.18	2.112	1.14	0.6
1.75V	36.48	25.92	19.92	11.53	7.36	3.02	2.04	1.116	0.564
1.80V	33.72	24.24	18.6	10.84	6.92	2.86	1.956	1.092	0.552

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.

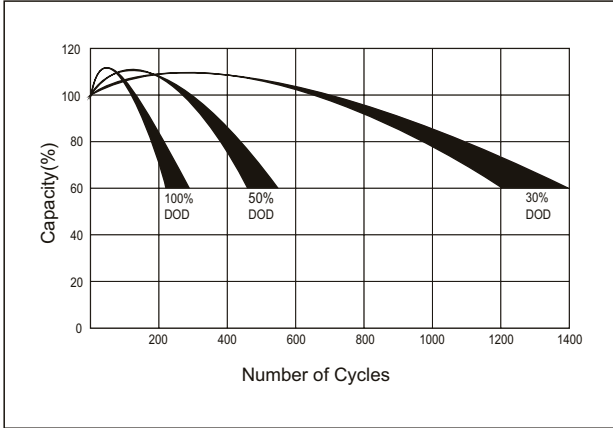
Discharge Characteristics Curve



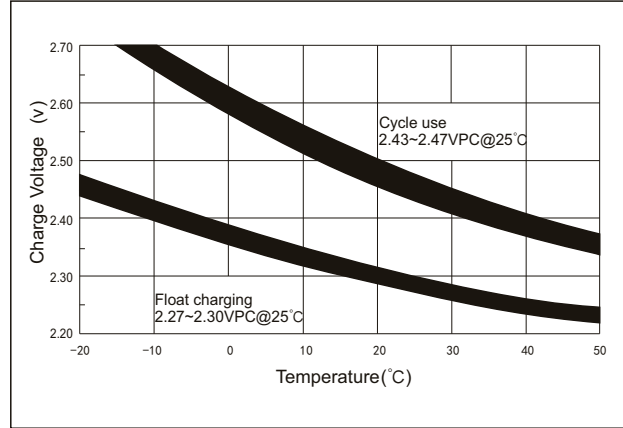
Charge Characteristic Curve for Standby Use



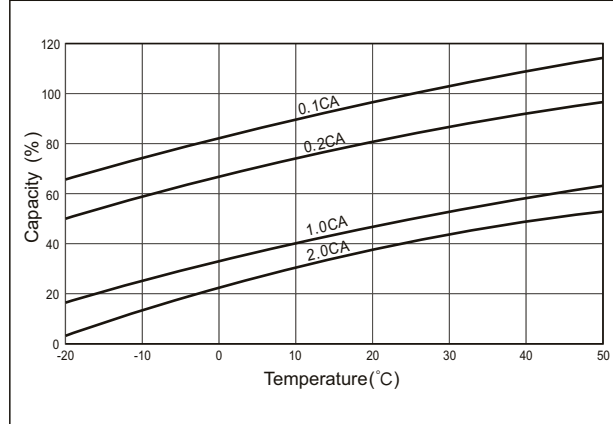
Cycle Life in Relation to Depth of Discharge



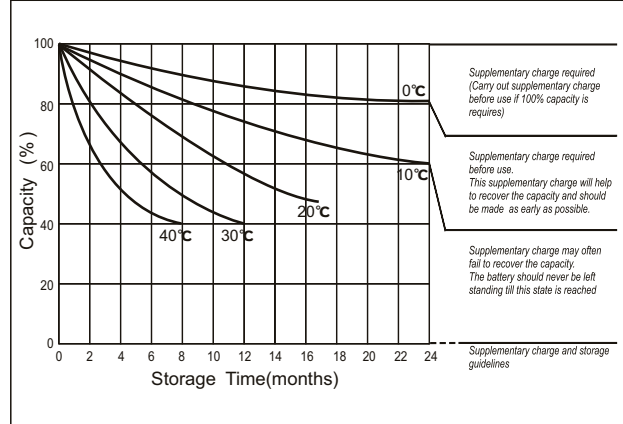
Relationship Between Charging Voltage and Temperature



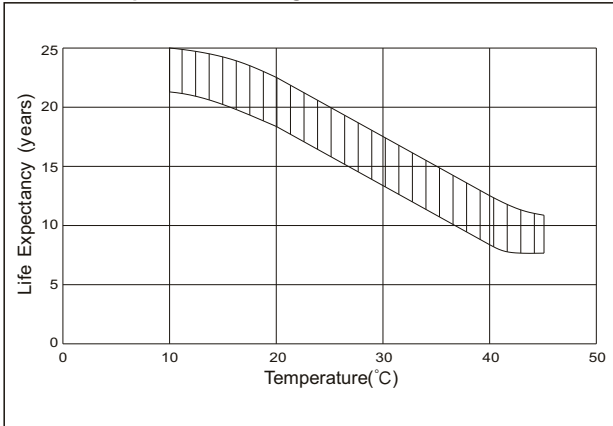
Temperature Effects On Capacity



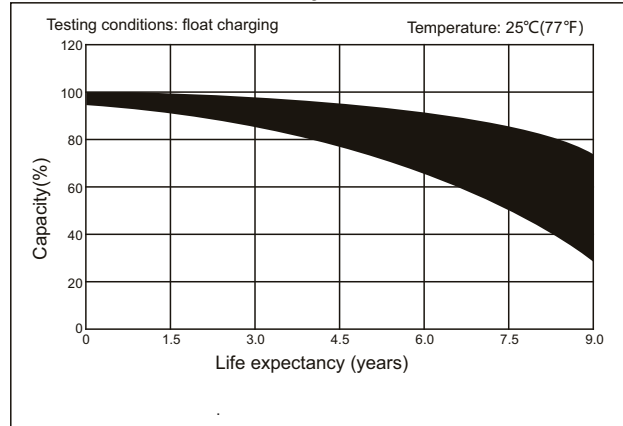
Storage Characteristics



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

