

DATA SHEET OF DA-BT100-TT (BACKUP BATTERY)

● General Series battery

GP Series VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup system. HR Series Batteries are the general purpose batteries with 10 years floating design life at 25°C, Meet with IEC, BS, JIS and Eurobat standard, CE approved.

● Application

- * Emergency Power System
- * Communication equipment
- * Telecommunication systems
- * Uninterruptible power supplies
- * Electric toy car and wheelchairs, etc.
- * Power tools
- * Alarm system
- * Marine equipment
- * Medical equipment
- * Fire and Security System

● General Features

- * Heavy Duty Grid
- * Mechanized assembly
- * Non-spillable construction
- * High Reliability and Stability
- * Sealed and Maintenance-free
- * Long Life and low self-discharge design

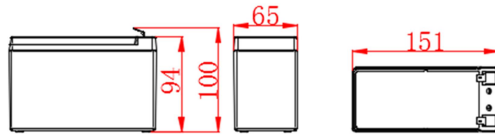
● Construction

- * Positive.....Lead dioxide
- * Electrolyte.....Sulfuric acid
- * Separator.....Fiber glass
- * Container ABS(UL94-HB))
- * Negative.....Lead
- * Safety Valve.....EPDR
- * Terminal.....Copper

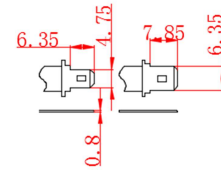
● Specification

Battery Model	Nominal Voltage		12V	
	Rated capacity (20 Hour rate)		7Ah	
	Cells Per battery		6	
Dimension	Length	Width	Height	Total Height
	151mm (5.94 inches)	65mm (2.56 inches)	94mm (3.7 inches)	100mm (3.94 inches)
Approx Weight	2kg (4.41lbs) ± 3%			
Capacity @ 25°C (77°F)	20 hour rate(0.36A, 10.5V)	10 hour rate(0.67A, 10.5V)	5 hour rate(1.23A, 10.5V)	1 hour rate(4.71A, 9.6V)
	7.2Ah	6.7Ah	6.15Ah	4.71Ah
Max. discharge current	70A (5Sec.)			
Internal Resistance	Full charged at 25°C(77°F): Approx 28mΩ			
Capacity affected by Temp.(10HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge @25°C(77°F)	After 3 months storage		After 6 months storage	After 12 months storage
	91%		82%	64%
Charge method @25°C(77°F)	Cycle Use		Float Use	
	14.4-14.7V (Initial charging current less than 2.1A)		13.50-13.80V	

● Outer dimension (mm)



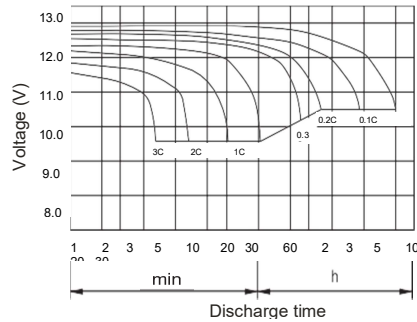
● Terminal Type (mm)



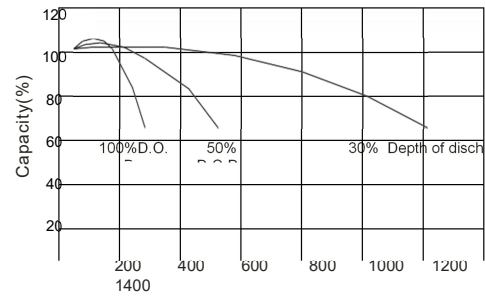
● Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C (77°F)

	F.V/time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
A	1.60V	27.30	18.77	14.20	7.87	4.71	3.45	2.56	1.83	1.25	0.85	0.70	0.40
	1.67V	24.24	17.52	13.46	7.70	4.68	3.41	2.55	1.82	1.24	0.85	0.68	0.38
	1.70V	22.94	16.89	13.13	7.63	4.64	3.41	2.54	1.81	1.24	0.84	0.68	0.37
	1.75V	20.76	15.90	12.58	7.50	4.57	3.37	2.53	1.80	1.23	0.84	0.67	0.36
	1.80V	18.55	14.83	12.06	7.33	4.54	3.34	2.51	1.79	1.23	0.83	0.66	0.35
W	1.85V	16.34	13.76	11.43	7.13	4.47	3.30	2.49	1.77	1.22	0.82	0.65	0.34
	F.V/time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
	1.60V	50.493	35.838	27.406	15.677	9.396	6.883	5.128	3.653	2.493	1.708	1.391	0.792
	1.67V	44.819	33.441	26.003	15.350	9.329	6.817	5.106	3.640	2.483	1.697	1.372	0.754
	1.70V	42.436	32.265	25.381	15.216	9.272	6.812	5.096	3.632	2.484	1.681	1.356	0.734
	1.75V	38.408	30.369	24.337	14.959	9.158	6.731	5.063	3.611	2.472	1.678	1.345	0.723
	1.80V	34.324	28.336	23.374	14.630	9.101	6.699	5.032	3.593	2.466	1.664	1.324	0.699
	1.85V	30.239	26.304	22.182	14.238	8.978	6.641	4.989	3.565	2.455	1.644	1.304	0.676

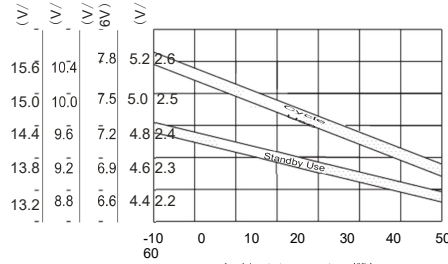
Discharge characteristic Curve



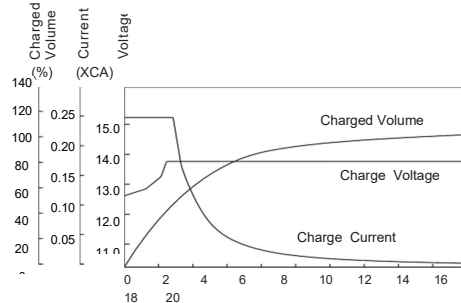
Cycleservice lifeinrelationtodepthofdischarge



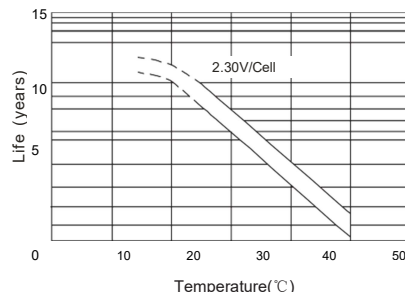
Relationship between charging voltage and



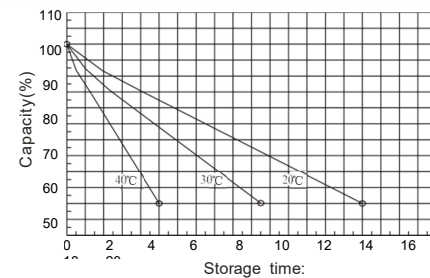
Constant voltage charging characteristic (0.25CA, at 25



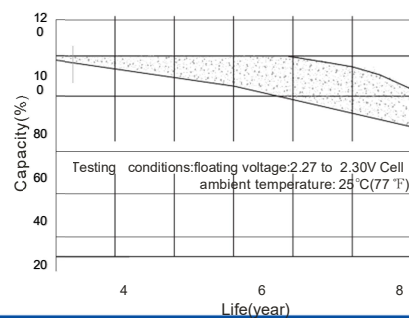
Temperature effects on float life



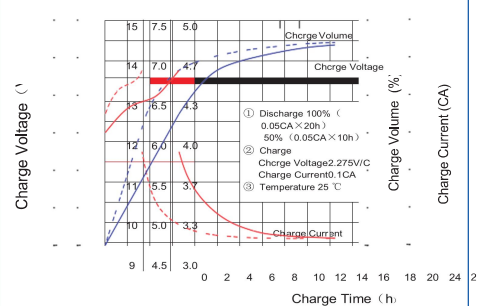
Self-discharge characteristic



Life characteristics of standby use



Charge characteristic Curve for standby use



● **Storage and transportation:**

- The storage battery must be fully charged.
- The battery should be stored in a low temperature, dry, clean, and well-ventilated environment.
- Avoid heat sources and direct sunlight.
- During the transportation of the battery, it is strictly forbidden to turn it upside down, or to carry it violently (causing the battery shell to break).
- Prolonged exposure to sunlight is strictly prohibited.
- It is strictly forbidden to get the packing box wet by rain.

● **Maintenance and maintenance:**

- If the battery is stored for more than 3 to 6 months, it needs to be recharged once. For the battery that loses electricity due to various reasons during use, it should be charged in time to prevent the performance degradation caused by the sulfation of the battery.
- Check the vent on the top cover of the battery frequently to prevent it from being blocked by dust, ice water, etc., to prevent the shell from deforming and exploding.
- When the battery or the vehicle is not used for a long time, the battery should be fully charged before storage, otherwise the service life of the battery will be affected.

● **Precautions:**

- This battery is a lead-acid battery, which is highly corrosive. Keep away from children. Users should wear protective eyes and rubber gloves when handling the battery. Once the eyes, skin and clothes are splashed with sulfuric acid, rinse immediately with plenty of water. Seek medical attention immediately.
- The battery should be kept away from heat sources and open flames, and should be ventilated during charging and use, and be careful not to explode and injure people.
- When installing the battery, do not use metal tools to connect the positive and negative terminals, otherwise it will cause a short circuit, causing fire or explosion.
- When the battery is charged, please turn off the charging power supply first, and then remove the connection line between the charger and the battery, to prevent explosions and injuries.