



2V300AH



Features:

- ▲ Maintenance-free operation
- ▲ Stable quality and high reliability
- ▲ Compact design
- ▲ 10 years design time (at 25°C)

Applications:

- ♣ UPS (Uninterruptable Power System)
- ♣ Fire alarm and security systems
- ♣ Emergency lighting
- ♣ DC power supply Auto control system
- ♣ Solar panel system
- ♣ Backup power for testing and measuring instruments
- ♣ Alarm and security system
- ♣ Electronic apparatus and equipment Communication power supply
- ♣ Tele-communication system
- ♣ etc

Specifications:

Type	Specification
Nominal Voltage	2v
Nominal Capacity	300ah
Dimension	Length: 170±3mm
	Width: 150±3mm
	Container Height: 329±3mm
	Total Height(with Terminal):365±3mm
Approx Weight	Approx 20kg
Terminal	T11
Container material	ABS
Rated Capacity	320.0ah/16A (20hrs, 1.80V/cell,25°C/77°F)
	300.0ah/30A (10hrs, 1.80V/cell,25°C/77°F)
	240.0ah/48.0A (5hrs, 1.75V/cell,25°C/77°F)
	180.0ah/180.0A (1hrs, 1.60V/cell,25°C/77°F)
Max.Discharge Current	2400A(5s)
Internal Resistance	Approx 0.6mΩ
Operation Temp.Range	Discharge:-15-50°C(5-122°F)
	Charge: 0-40°C(32-104°F)
	Storage: -15-40°C(5-104°F)
Nominal Operating Temp.Range	25±3°C(77±5°F)
Cycle Use	2.4V-2.5V(25°C/77°F) Coefficient:30mv/°C (Initial charging current less than 120A)

Standby Use	2.25V-2.3V(25°C/77°F) Coefficient:20mv/°C (Initial Charging Current less than 45A)		
Capacity affected by Temp.	103%	40°C(104°F)	
	100%	25°C(77°F)	
	86%	0°C(32°F)	

Constant discharge current and power(A/W:at 25 °C)

Time		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	A	1110	810	570	345	180	105	77	60	50	35	32	17
	W	1965	1434	1009	611	347	203	149	116	96	67	61	33
1.70V	A	978	738	510	327	169	100	75	59	49	34	31	17
	W	1809	1365	944	605	327	193	145	113	94	66	59	32
1.75V	A	942	702	480	318	164	98	73	58	48	34	30	16
	W	1780	1327	907	601	316	189	141	111	93	65	59	32
1.80V	A	906	666	450	309	158	95	71	57	47	33	30	16
	W	1758	1292	873	599	307	185	139	109	91	64	58	31
1.85V	A	870	630	420	300	153	93	69	55	46	32	29	15
	W	1726	1250	833	595	303	184	137	108	90	64	57	31

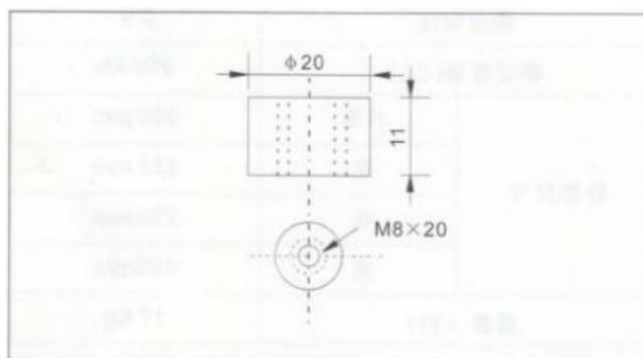
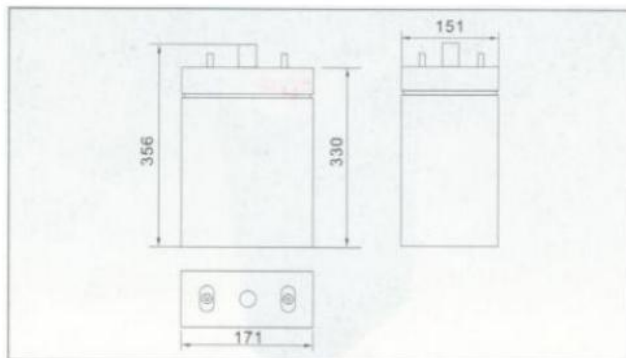
Self Discharge:

KANGLIDA batteries may be stored for up to 6months at 25°C(77°F) and then a freshing charge is required, for higher temperatures the time interval will be shorter.

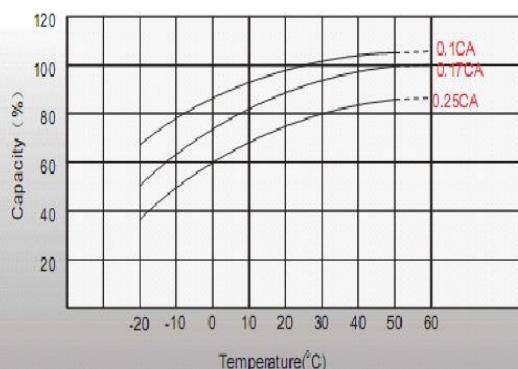
Capacity after storage	1month	3month	6month	12month
Self-discharge 25°C(77°F)	98%	91%	82%	65%

Note: the above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.

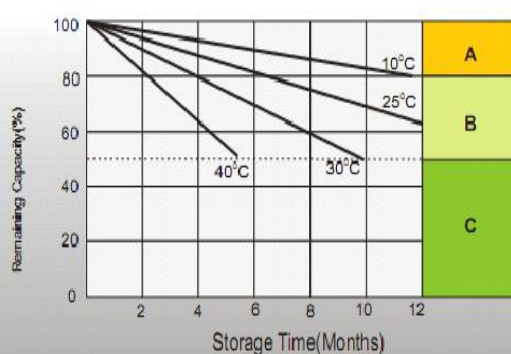
Characteristics:



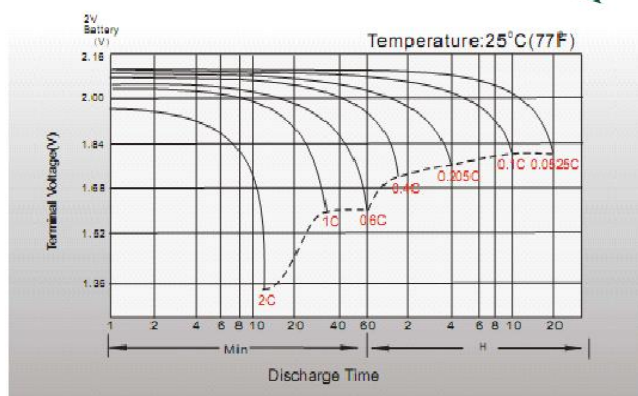
Temperature Effects in Relation to Battery Capacity



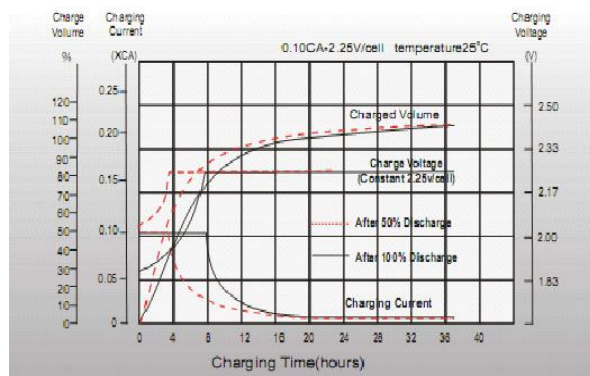
Self Discharge Characteristics



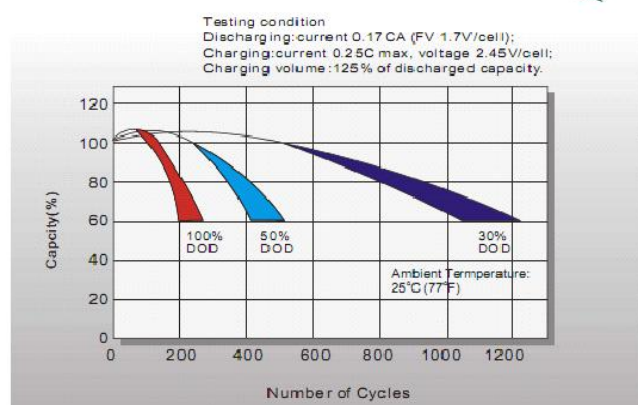
Discharge Characteristics



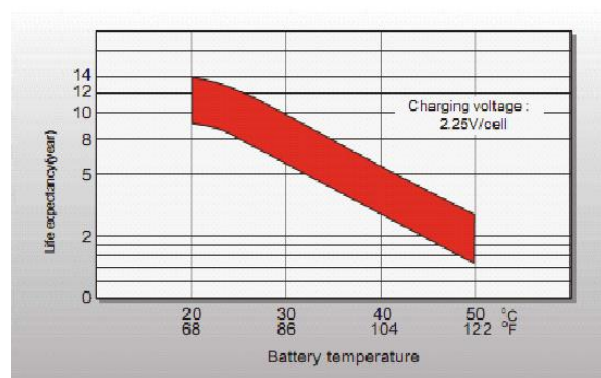
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



Attentions:

1. After received product, please checked box damaged or not, if find crack on battery body, contact with us and logistics, it should be caused by boorish handle during delivery;
2. Don't pull or shake terminal, otherwise, it may cause terminal loosen;
3. Battery is not allowed close to Tepid source or basked under the sun for a long time;
4. Charge in the obturate container is not allowed;
5. No short circuit. Battery should be stored full of electronic when not in need, and the battery should be charged every three months in order to avoid the irreversible sulphation. When battery case bursts or electrolyte leaks, battery should be changed lest the acid corrosion.
6. No battery in environment with the acid gas.
7. When battery is used as the backup battery, be careful and check it at regular time to avoid the damage battery. Especially the battery beyond one year should be checked in time, and change the less capacity and scrapped battery. (some batteries maybe have voltage but no current; some batteries maybe have current but no voltage; some maybe have both but less capacity: all these conditions cannot meet the work, reach the power-on time. Do not forth small battery, cause the huge losses)
8. Forbidden put battery in the fire, otherwise it will cause an explosion.
9. When battery cracks or leaks, please use cotton cloth clean it. When skin contacts to the liquid, wash with fresh water immediately. See doctor if serious.
10. No wash on the surface of the battery with the organic solution.

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