

GTGD12-100 12V-100AH

GD SERIES-Gel&DeepCycleBattery



Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	100AH	
Dimension	Length	329± 3mm
	Width	172 ± 2mm
	Container Height	218± 2mm
	Total Height (with Terminal)	225± 2mm
Approx Weight	Approx 28.6Kg	
Terminal	T11	
Container Material	ABS	
Rated Capacity	107.2AH/5.36A	(20hr ,1.80V/cell,25°C/77°F)
	100AH/10.0A	(10hr,1.75V/cell,25°C/77°F)
	87.5 AH/17.5A	(5hr,1.75V/cell,25°C/77°F)
	79.5AH/26.5A	(3hr,1.75V/cell,25°C/77°F)
	64.6 AH/64.6A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	1000A (5s)	
Internal Resistance	Approx 5.5mΩ	
Operating 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	Initial Charging Current less than 30.0A.Voltage 14.6V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage 13.6V~13.7V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104 °F)	103%
	25°C (77 °F)	100%
	0°C (32 °F)	86%
Self Discharge	GLOBAL POWER batteries may be stored for up to 9 months at 25°C(77°F) and battery should be recharge before use.For higher temperatures the time interval will be shorter.	

Applications

- ◆ Uninterruptable Power Supply(UPS)
- ◆ Electric Power System(EPS)
- ◆ Emergency backup Power Supply
- ◆ Alarm and security system
- ◆ Electronic Apparatus and equipment
- ◆ Communication Power Supply
- ◆ Solar Power System

Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	146.4	123.2	107.7	77.5	61.5	49.9	31.0	24.2	19.6	15.9	13.9	11.3	9.4	5.31
1.80V/cell	187.1	148.9	127.3	91.4	71.6	55.9	33.9	26.0	20.9	17.1	14.9	12.0	9.6	5.36
1.75V/cell	205.6	162.6	136.9	94.9	74.3	58.5	35.1	26.5	21.4	17.5	15.3	12.2	10.0	5.41
1.70V/cell	224.1	173.6	143.9	98.8	77.2	60.4	36.5	27.2	22.0	18.0	15.6	12.4	10.2	5.51
1.65V/cell	241.8	184.6	152.8	104.2	79.2	62.4	37.5	28.4	22.7	18.5	16.0	12.6	10.4	5.58
1.60V/cell	262.5	197.4	162.8	110.0	82.5	64.6	38.8	29.3	23.4	19.1	16.3	12.7	10.5	5.61

Constant Power Discharge (Watts) at 25°C (77°F)

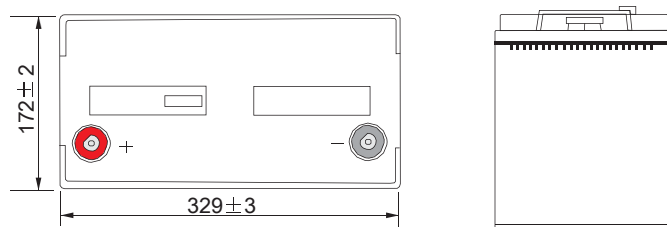
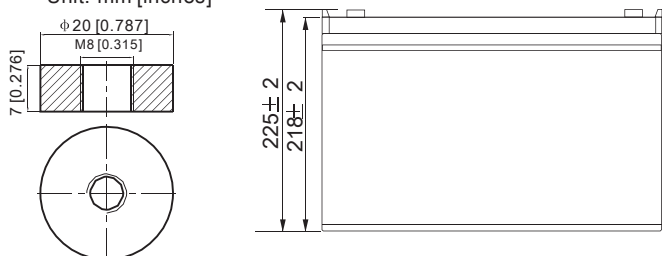
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	273.2	232.3	205.2	148.8	119.0	96.9	60.4	47.2	38.4	31.3	27.4	22.4	18.7	10.6
1.80V/cell	344.4	276.5	238.8	173.5	137.3	107.9	65.6	50.6	40.8	33.5	29.3	23.7	19.8	10.7
1.75V/cell	373.8	299.1	254.8	179.3	141.8	112.5	67.8	51.4	41.6	34.3	30.1	24.1	20.0	10.8
1.70V/cell	401.7	316.9	266.3	185.8	147.0	115.7	70.3	52.7	42.6	35.1	30.7	24.5	20.2	11.0
1.65V/cell	430.4	334.8	281.5	195.2	150.2	119.2	72.1	54.8	44.0	36.0	31.3	24.8	20.6	11.1
1.60V/cell	459.4	353.8	296.8	204.0	155.1	122.5	74.1	56.2	45.1	37.0	31.9	25.0	20.8	11.2

Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

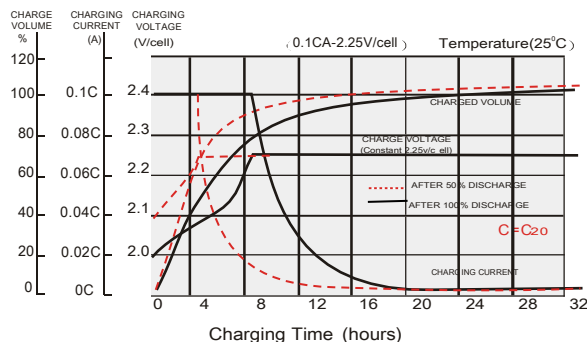
Dimensions

T11 Terminal

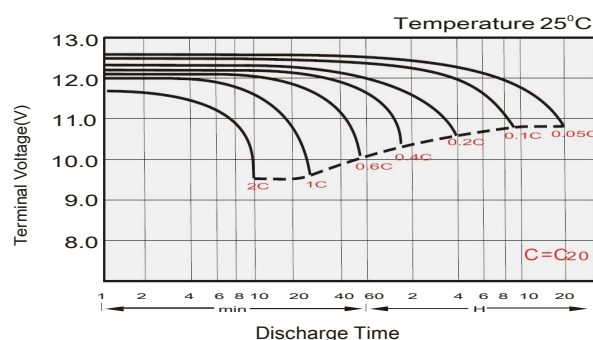
Unit: mm [inches]



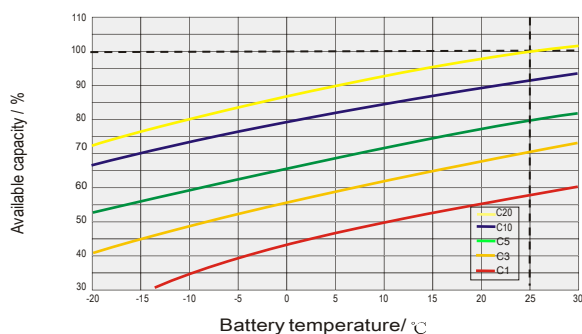
Float Charging Characteristics



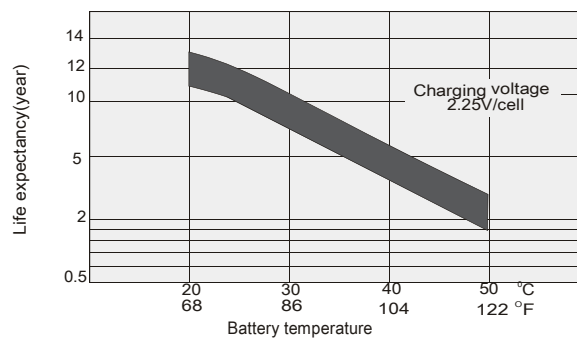
Discharge Characteristics



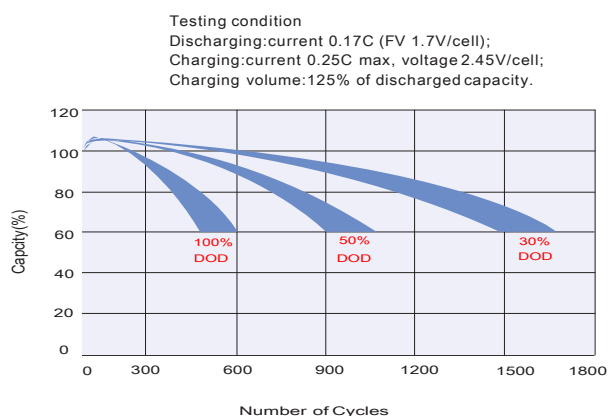
Temperature Effects in Relation to Battery Capacity



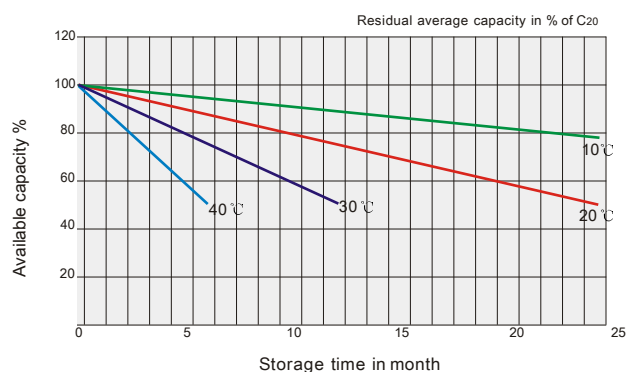
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



GLOBAL POWER BATTERIES

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