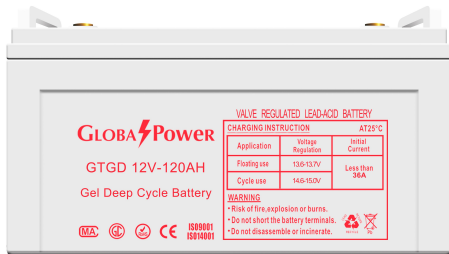


GTGD12-120 12V-120AH

GD SERIES-Gel&Deep Cycle Battery



Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	120AH	
Dimension	Length	406±3mm
	Width	174±2mm
	Container Height	215±2mm
	Total Height (with Terminal)	233±2mm
Approx Weight	Approx 33.5 Kg	
Terminal	T11	
Container Material	ABS	
Rated Capacity	128.6AH/6.43A	(20hr, 1.80V/cell, 25°C/77°F)
	120AH/12.0A	(10hr, 1.75V/cell, 25°C/77°F)
	105 AH/21.0A	(5hr, 1.75V/cell, 25°C/77°F)
	95.4 AH/31.8A	(3hr, 1.75V/cell, 25°C/77°F)
	77.5 AH/77.5A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	1300A (5s)	
Internal Resistance	Approx 4.0mΩ	
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 36 A. 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 6 months at 25°C(77°F) and battery should be recharged 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	175.7	147.8	129.2	93.0	73.8	59.9	37.2	29.0	23.5	19.1	16.7	13.6	11.3	6.37
1.80V/cell	224.5	178.6	152.7	109.7	85.9	67.1	40.6	31.2	25.1	20.5	17.9	14.4	11.7	6.43
1.75V/cell	246.7	195.1	164.3	113.9	89.1	70.2	42.1	31.8	25.7	21.0	18.4	14.7	12.0	6.52
1.70V/cell	268.9	208.3	172.6	118.5	92.7	72.4	43.8	32.7	26.3	21.6	18.7	14.9	12.2	6.61
1.65V/cell	290.2	221.5	183.4	125.0	95.0	74.9	45.0	34.1	27.2	22.2	19.2	15.1	12.5	6.70
1.60V/cell	315.0	236.9	195.4	132.0	99.0	77.5	46.5	35.1	28.1	22.9	19.6	15.3	12.6	6.73

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	327.8	278.7	246.2	178.6	142.8	116.3	72.5	56.7	46.0	37.5	32.9	26.9	22.4	12.8
1.80V/cell	413.3	331.7	286.6	208.2	164.8	129.5	78.7	60.7	48.9	40.2	35.2	28.5	23.8	12.9
1.75V/cell	448.5	358.9	305.7	215.1	170.2	135.0	81.4	61.7	49.9	41.1	36.1	29.0	24.0	13.0
1.70V/cell	482.0	380.3	319.5	223.0	176.4	138.9	84.4	63.2	51.1	42.1	36.8	29.3	24.2	13.2
1.65V/cell	516.5	401.8	337.8	234.2	180.2	143.1	86.5	65.8	52.8	43.2	37.5	29.8	24.7	13.3
1.60V/cell	551.2	424.6	356.2	244.8	186.1	149.0	88.9	67.4	54.2	44.4	38.3	30.0	24.9	13.4

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

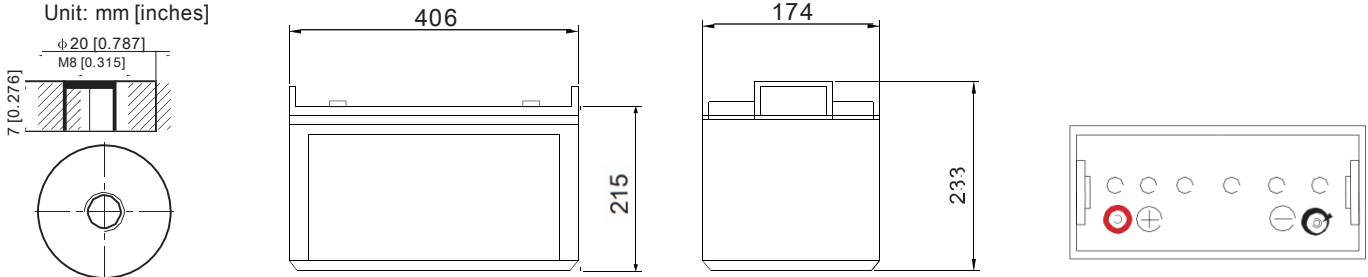
GTGD12-120 12V-120AH

GD SERIES-Gel&Deep Cycle Battery

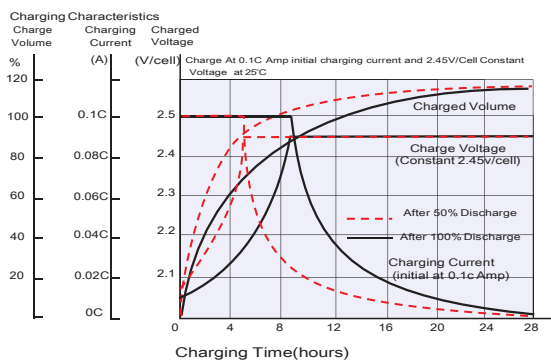
Dimensions

T11 Terminal

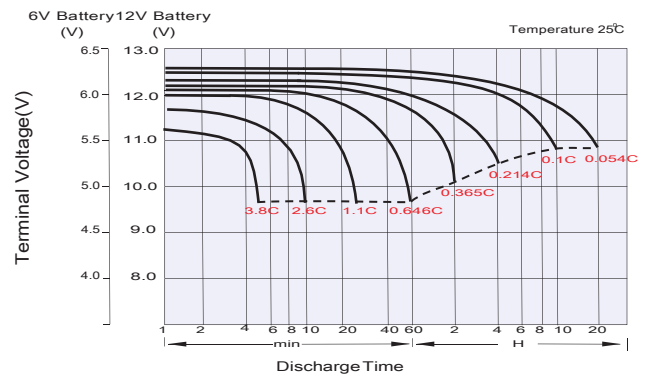
Unit: mm [inches]



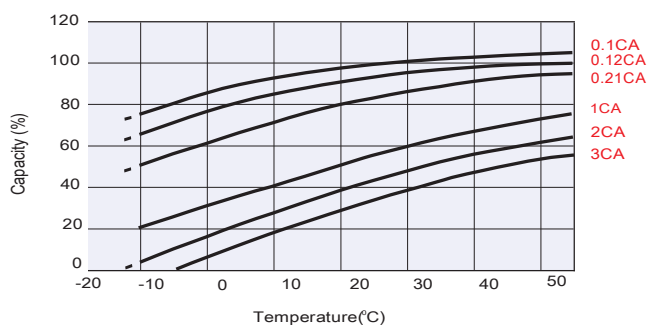
Charging Characteristics (cycle use)



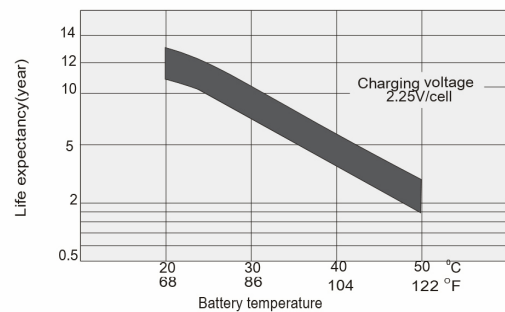
Discharge Characteristics



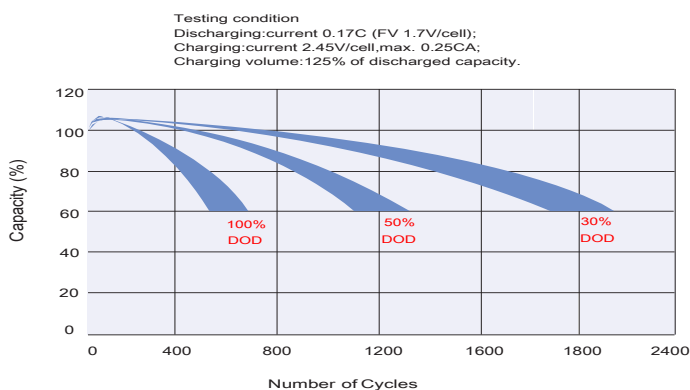
Temperature Effects in Relation to Battery Capacity



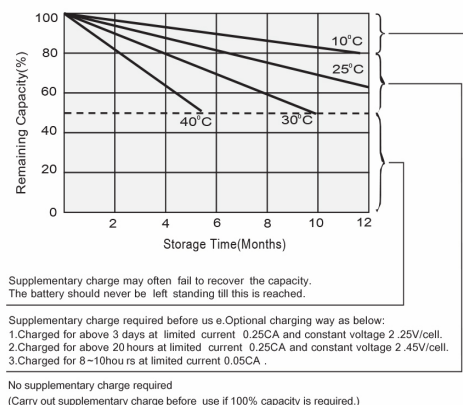
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



GLOBAL POWER BATTERIES

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specification are subject to modification without notice. Contact us for the latest information.