


GE120-12 12V120AH

GE SERIES-GEL Battery



Applications

- ◆ Telecommunications
- ◆ Solar system
- ◆ Wind power system
- ◆ Engine starting
- ◆ Wheelchair
- ◆ Floor cleaning machines
- ◆ Golf trolley
- ◆ Boats

ISO 9001	ISO 14001	OHSAS 18001	
	RoHS		

Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	120.0AH	
Dimension	Length	407±3mm (16.0 inches)
	Width	173±2mm (6.81 inches)
	Container Height	208±2mm (8.18 inches)
	Total Height (with Terminal)	233±2mm (9.17 inches)
Approx Weight	Approx 32.2 Kg (70.9 lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	128.6 AH/6.43A	(20hr, 1.80V/cell, 25°C/77°F)
	120.0 AH/12.0A	(10hr, 1.80V/cell, 25°C/77°F)
	105.2 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	1170A (5s)	
Internal Resistance	Approx 4.8mΩ	
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 A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	Standby Use No limit on Initial Charging Current Voltage 13.5V~13.8V 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	GE series batteries may be stored for up to 9 months at 25 °C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

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

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	110.0	86.3	65.9	55.1	35.0	26.7	22.1	19.1	16.4	14.6	13.1	12.0	11.3	6.24
1.80V/cell	126.0	96.5	72.6	60.8	37.8	28.6	23.4	20.0	17.3	15.2	13.8	12.6	11.9	6.50
1.75V/cell	141.6	106.1	78.5	65.1	40.1	30.2	24.5	20.8	17.9	15.8	14.2	13.0	12.1	6.63
1.70V/cell	152.5	113.6	83.4	68.9	42.5	31.4	25.3	21.5	18.5	16.3	14.6	13.3	12.4	6.71
1.67V/cell	158.7	118.0	86.3	71.5	43.6	32.4	25.9	21.9	18.8	16.5	14.9	13.5	12.5	6.78
1.60V/cell	172.0	126.4	92.7	75.9	45.4	33.7	26.9	22.6	19.3	16.9	15.1	13.8	12.8	6.88

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

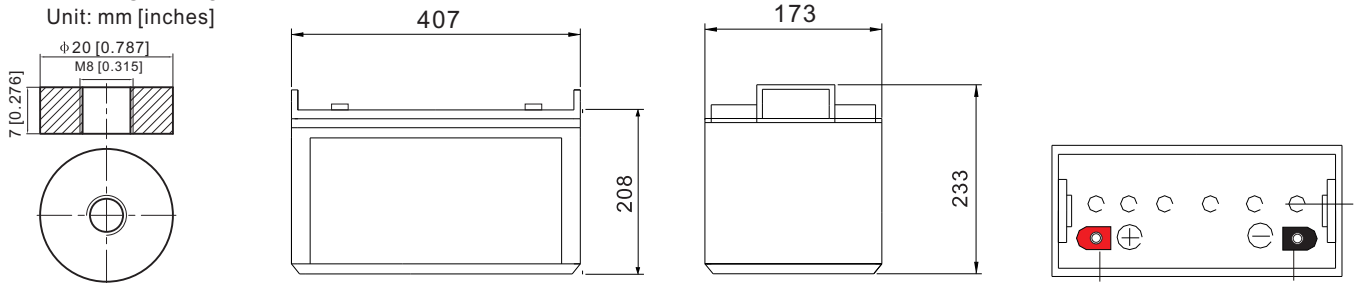
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	210.5	166.3	127.7	107.3	68.3	52.2	43.4	37.6	32.6	28.9	26.1	23.9	22.6	12.5
1.80V/cell	238.0	184.1	139.8	117.8	73.6	55.7	45.8	39.4	34.1	30.2	27.3	25.1	23.6	13.0
1.75V/cell	264.5	200.7	150.1	125.5	77.8	58.8	47.9	40.8	35.2	31.2	28.1	25.8	24.0	13.2
1.70V/cell	281.8	213.0	158.2	132.0	82.0	61.0	49.3	41.9	36.3	32.1	28.9	26.5	24.6	13.4
1.67V/cell	290.0	219.0	162.7	136.2	83.7	62.7	50.4	42.7	36.8	32.5	29.3	26.7	24.8	13.5
1.60V/cell	310.8	232.2	173.4	143.9	86.7	64.9	52.1	43.9	37.6	33.1	29.7	27.3	25.3	13.6

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

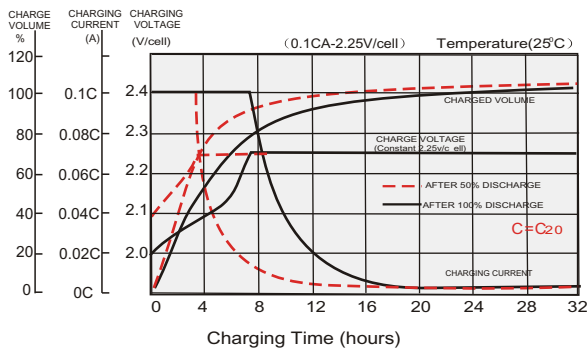
Dimensions

T11 Terminal

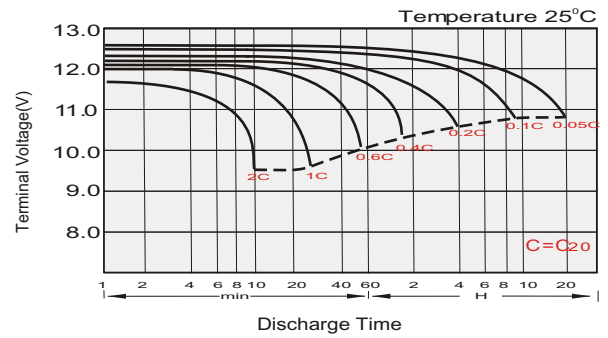
Unit: mm [inches]



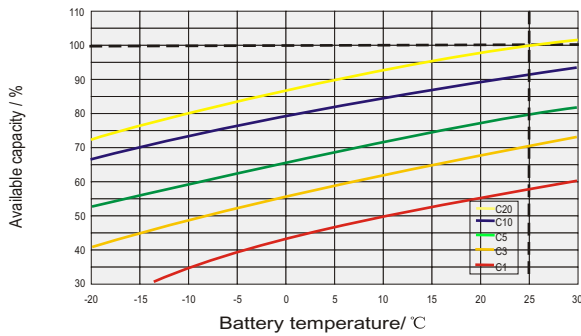
Float Charging Characteristics



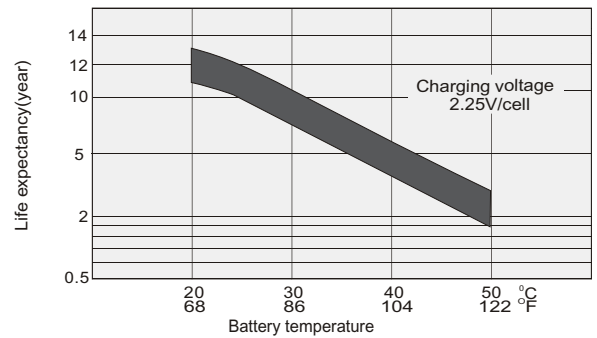
Discharge Characteristics



Temperature Effects in Relation to Battery Capacity

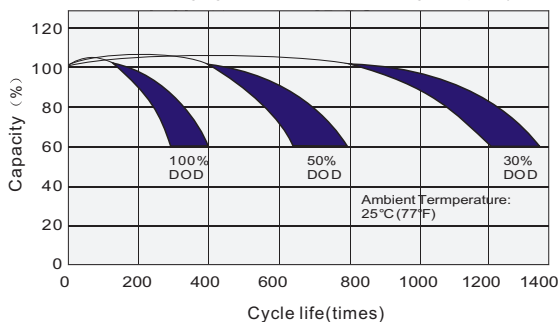


Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge

Testing condition
Discharging: current 0.17C (FV 1.7V/cell);
Charging: current 0.25C max, voltage 2.45V/cell;
Charging volume: 125% of discharged capacity.



General Relation of Capacity VS. Storage Time

