

## GEL12-200 12V200AH

### GEL SERIES-GEL Battery



#### Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	200AH	
Dimension	Length	522 ± 3mm (20.55 inches)
	Width	240 ± 2mm (9.45 inches)
	Container Height	218 ± 2mm (8.58 inches)
	Total Height (with Terminal)	244 ± 2mm (8.81 inches)
Approx Weight	Approx 55.5Kg (122.5 lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	209.1 AH/10.4A	(20hr ,1.80V/cell,25°C/77°F)
	200.0 AH/20.0A	(10hr,1.80V/cell,25°C/77°F)
	173.0 A H/34.6A	(5hr,1.75V/cell,25°C/77°F)
	157.2 AH/52.4A	(3hr,1.75V/cell,25°C/77°F)
	122.8 AH/122.8A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	1800A (5s)	
Internal Resistance	Approx 3.4mΩ	
Operating Temp.Range	Discharge	: -30~ 50°C (5 122°F)
	Charge	: 0~ 40°C (32 104°F)
	Storage	: -30~ 40°C (5 104°F)
Nominal Operating Temp. Range	25 ±3°C (77 ±5°F )	
Cycle Use	Initial Charging Current less than 60 A.Voltage	
	14.4V~14.9V 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	Techfine GEL series batteries may be stored for up to 9 months at 25°C(77°F) and t battery should be recharge before use .For higher temperatures the time interval will be shorter.	

#### Applications

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

ISO 9001	ISO 14001	OHSAS 18001	
	RoHS		

#### 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	169.2	132.8	101.3	84.8	53.8	41.0	34.0	29.3	25.3	22.4	20.2	18.5	17.5	9.60
1.80V/cell	193.8	148.4	111.7	93.6	58.2	43.9	36.0	30.8	26.6	23.5	21.2	19.4	18.2	10.0
1.75V/cell	217.8	163.2	120.8	100.2	61.7	46.4	37.7	32.0	27.5	24.3	21.9	20.0	18.6	10.2
1.70V/cell	234.6	174.8	128.3	106.0	65.4	48.3	39.0	33.0	28.5	25.1	22.5	20.5	19.0	10.3
1.67V/cell	244.2	181.6	132.8	110.0	67.1	49.9	39.9	33.7	28.9	25.5	22.9	20.8	19.3	10.4
1.60V/cell	264.6	194.4	142.7	116.8	69.8	51.9	41.4	34.7	29.6	26.0	23.3	21.2	19.6	10.6

#### 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	323.8	255.9	196.5	165.1	105.1	80.3	66.8	57.9	50.1	44.5	40.2	36.8	34.8	19.2
1.80V/cell	366.1	283.3	215.1	181.3	113.3	85.8	70.5	60.6	52.4	46.4	42.0	38.6	36.3	19.9
1.75V/cell	406.9	308.7	230.8	193.1	119.6	90.4	73.6	62.7	54.1	47.9	43.3	39.7	37.0	20.3
1.70V/cell	433.5	327.8	243.3	203.1	126.2	93.9	75.9	64.5	55.9	49.4	44.5	40.7	37.8	20.5
1.67V/cell	446.2	337.0	250.2	209.6	128.8	96.4	77.5	65.7	56.7	50.0	45.1	41.1	38.2	20.7
1.60V/cell	478.1	357.3	266.8	221.3	133.4	99.8	80.2	67.5	57.8	51.0	45.8	42.0	38.9	21.0

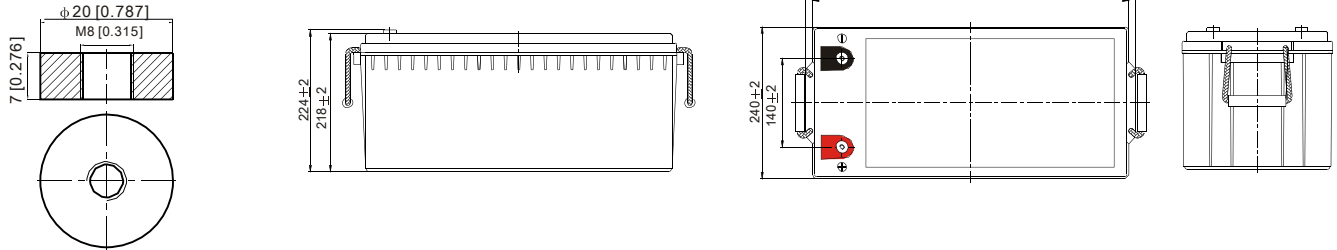
**Note** The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

## GEL12-200 12V200AH GEL SERIES-GEL Battery

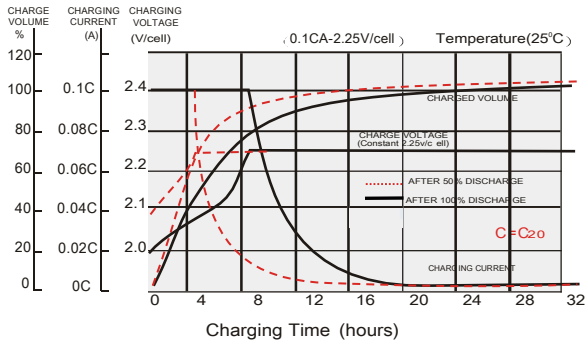
### Dimensions

#### T11 Terminal

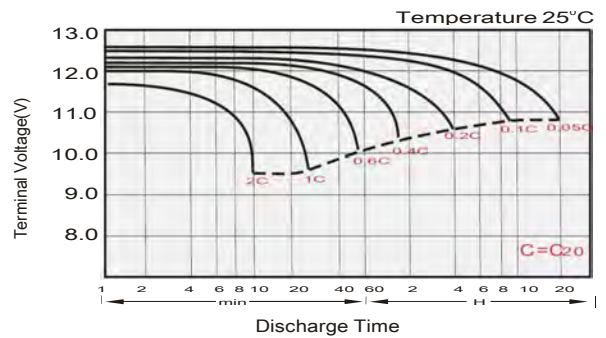
Unit: mm [inches]



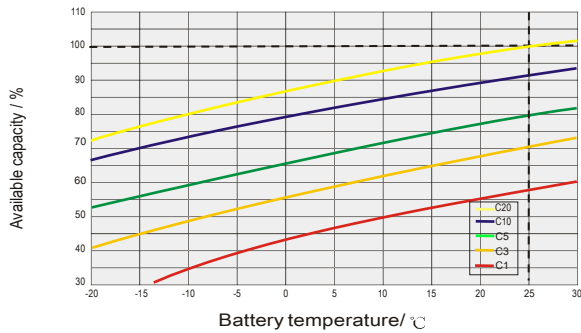
### Float Charging Characteristics



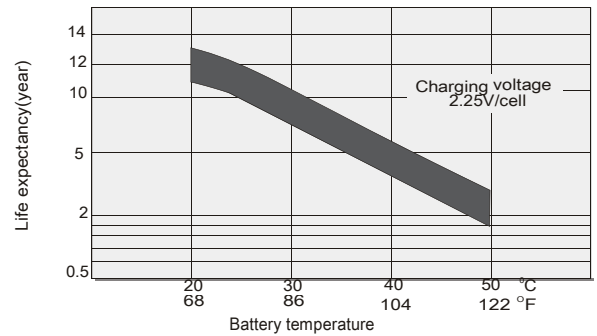
### Discharge Characteristics



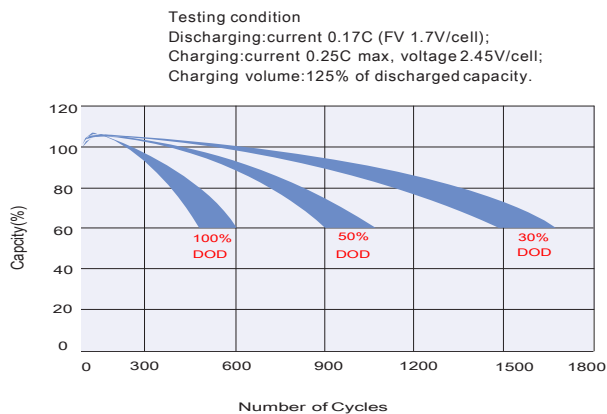
### Temperature Effects in Relation to Battery Capacity



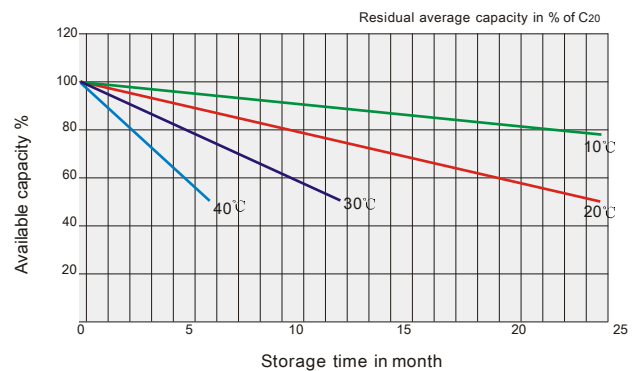
### Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



### General Relation of Capacity VS. Storage Time



### TECHFINE GEL 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.