

GEL12-250 12V250AH

GEL SERIES-GEL Battery



Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	250AH	
Dimension	Length	522 ± 3mm (20.6 inches)
	Width	268 ± 2mm (10.6 inches)
	Container Height	218 ± 2mm (8.58 inches)
	Total Height (with)	226 ± 2mm (8.90 inches)
Approx Weight	Approx 66.5 Kg (146.7lbs)	
Terminal	T11	
Container Material	ABS	

Rated Capacity	257.3AH/12.8A	(20hr ,1.80V/cell,25°C/77°F)
	250.0 AH/25.0A	(10hr,1.80V/cell,25°C/77°F)
	218.7 AH/43.7A	(5hr,1.75V/cell,25°C/77°F)
	198.7 AH/66.2A	(3hr,1.75V/cell,25°C/77°F)
	161.5 AH/161.5A	(1hr,1.60V/cell,25°C/77°F)

Max. Discharge Current	2000A (5s)
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Internal Resistance	Approx 2.0mΩ
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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)
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Cycle Use	Initial Charging Current less than 75 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 9months at25°C(77°F)and battery should be recharge before use. For higher temperatures the time interval will be shorter.
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Applications

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

ISO 9001	ISO 14001	OHSAS 18001	TLC
CE	RoHS	UL	Battery

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

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.80V	656.8	437.5	351.8	234.5	168.3	165.0	93.0	68.0	45.0	28.0	25.00	13.88
1.75V	696.2	463.8	369.3	241.5	173.3	170.0	95.3	69.7	45.7	28.3	25.25	14.01
1.70V	788.1	525.0	386.9	248.6	178.3	174.9	97.7	71.4	46.4	28.6	25.50	14.15
1.65V	775.0	516.3	404.5	255.6	183.4	179.9	99.5	72.8	47.0	28.8	25.75	14.29
1.60V	840.6	560.0	422.1	262.6	188.4	184.8	101.4	74.1	47.7	29.1	26.00	14.43

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

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.80V	1224.8	815.9	656.0	437.3	313.8	307.7	173.4	126.8	83.9	52.2	46.6	25.9
1.75V	1298.3	864.9	688.8	450.5	323.2	317.0	177.8	130.0	85.2	52.7	47.1	26.1
1.70V	1469.8	979.1	721.6	463.6	332.6	326.2	182.1	133.2	86.4	53.3	47.6	26.4
1.65V	1445.3	962.8	754.4	476.7	342.0	335.4	185.6	135.7	87.7	53.8	48.0	26.7
1.60V	1567.8	1044.4	787.2	489.8	351.4	344.7	189.1	138.2	89.0	54.3	48.5	26.9

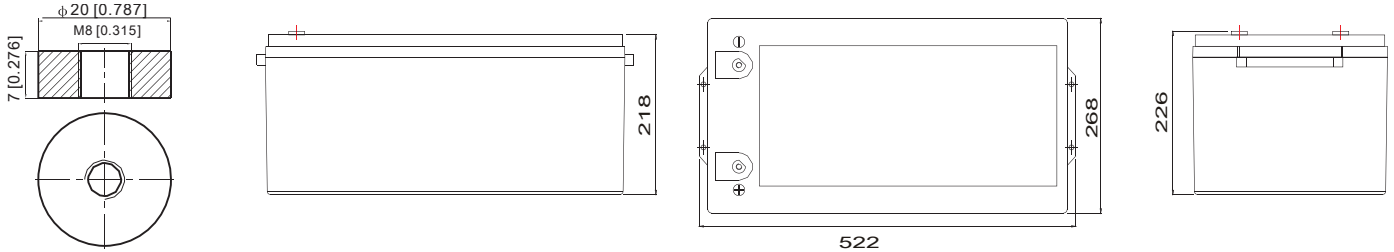
Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

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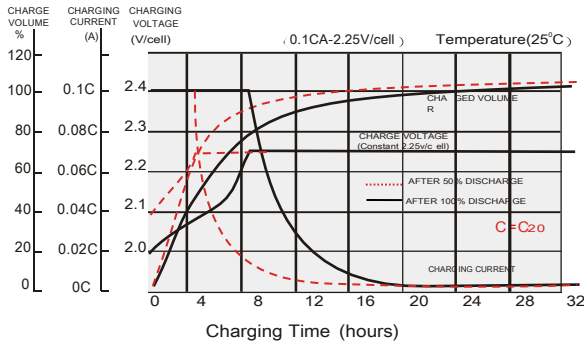
Dimensions

T11 Terminal

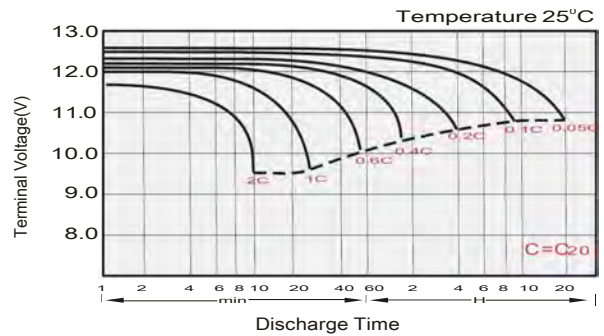
Unit: mm [inches]



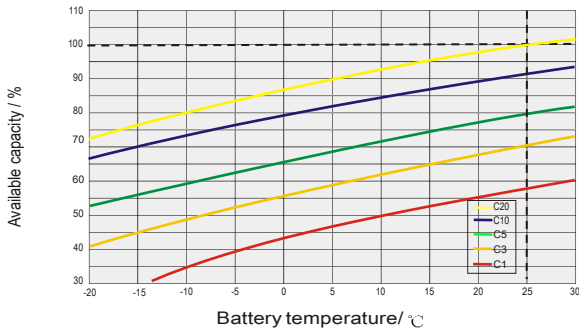
Float Charging Characteristics



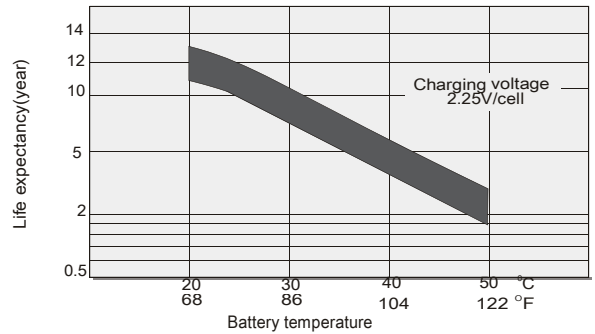
Discharge Characteristics



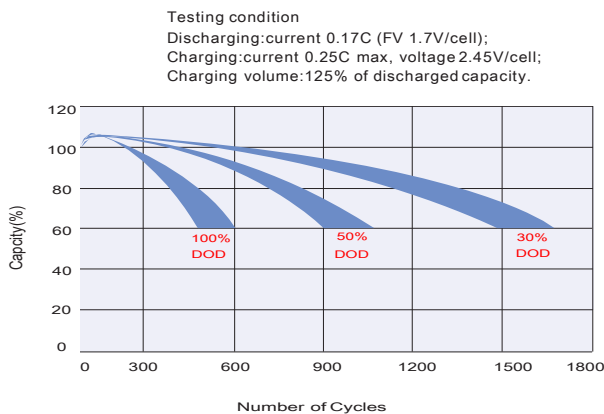
Temperature Effects in Relation to Battery Capacity



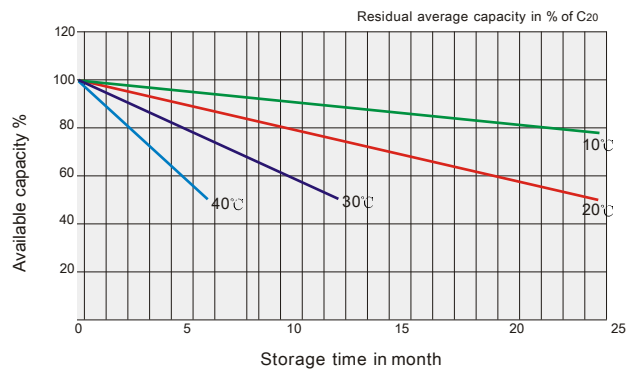
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



TECHFINE GEL BATTERIES

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