



## GE70-12 12V70AH

### GE SERIES-Hybrid GEL Battery



#### Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	70.0AH	
Dimension	Length	260 ± 3mm (10.2 inches)
	Width	169 ± 2mm (6.65 inches)
	Container Height	211 ± 2mm (8.30 inches)
	Total Height (with Terminal)	215 ± 2mm (8.46 inches)
Approx Weight	Approx 21.0 Kg (46.29 lbs)	
Terminal	T6 / T10	
Container Material	ABS	
Rated Capacity	73.6 AH/3.68A	(20hr, 1.80V/cell, 25°C/77°F)
	70.0 AH/7.00A	(10hr, 1.80V/cell, 25°C/77°F)
	61.6 AH/12.3A	(5hr, 1.75V/cell, 25°C/77°F)
	54.8 AH/18.2A	(3hr, 1.75V/cell, 25°C/77°F)
	42.7 AH/42.7A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	700A (5s)	
Internal Resistance	Approx 8.2 mΩ	
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 17.5 A. Voltage 14.4V~15.0V at 25 °C(77 °F)Temp. Coefficient -30mV/°C	
	Standby Use	
Capacity affected by Temperature	40°C (104 °F)	103%
	25°C (77 °F)	100%
	0°C (32 °F)	86%
Self Discharge	JYC 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.	

#### 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	PV Battery

#### 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	55.0	43.2	32.9	27.6	17.5	13.3	11.0	9.53	8.22	7.28	6.57	6.00	5.67	3.12
1.80V/cell	63.0	48.2	36.3	30.4	18.9	14.3	11.7	10.0	8.63	7.62	6.88	6.31	5.93	3.25
1.75V/cell	70.8	53.0	39.3	32.6	20.1	15.1	12.3	10.4	8.94	7.89	7.10	6.50	6.05	3.32
1.70V/cell	76.2	56.8	41.7	34.5	21.3	15.7	12.7	10.7	9.25	8.15	7.31	6.67	6.19	3.36
1.67V/cell	79.4	59.0	43.2	35.8	21.8	16.2	13.0	10.9	9.40	8.27	7.43	6.76	6.26	3.39
1.60V/cell	86.0	63.2	46.4	38.0	22.7	16.9	13.5	11.3	9.63	8.45	7.56	6.90	6.38	3.44

#### 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	105.3	83.2	63.9	53.7	34.2	26.1	21.7	18.8	16.3	14.5	13.1	12.0	11.3	6.23
1.80V/cell	119.0	92.1	69.9	58.9	36.8	27.9	22.9	19.7	17.0	15.1	13.7	12.5	11.8	6.48
1.75V/cell	132.2	100.3	75.0	62.8	38.9	29.4	23.9	20.4	17.6	15.6	14.1	12.9	12.0	6.60
1.70V/cell	140.9	106.5	79.1	66.0	41.0	30.5	24.7	21.0	18.2	16.1	14.5	13.2	12.3	6.68
1.67V/cell	145.0	109.5	81.3	68.1	41.9	31.3	25.2	21.3	18.4	16.3	14.6	13.4	12.4	6.74
1.60V/cell	155.4	116.1	86.7	71.9	43.4	32.4	26.0	21.9	18.8	16.6	14.9	13.6	12.6	6.82

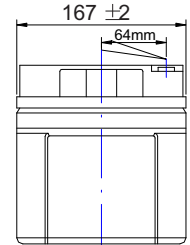
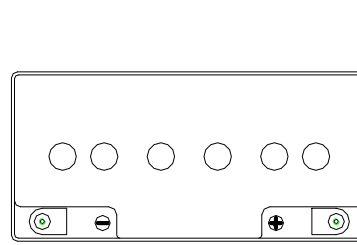
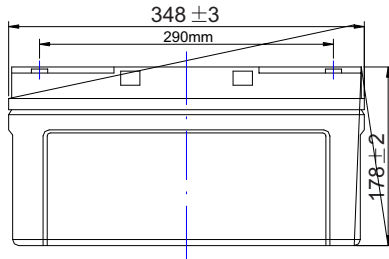
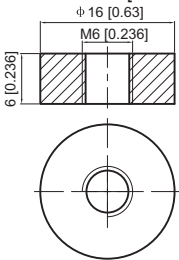
**Note** The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.



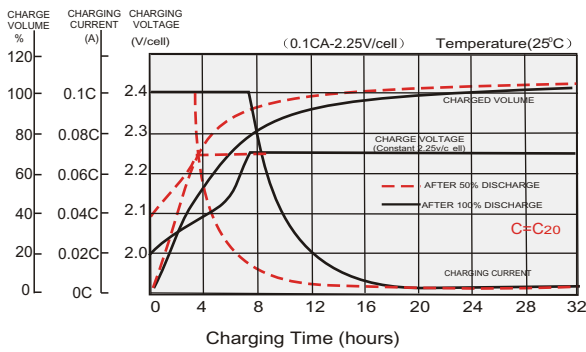
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### Dimensions

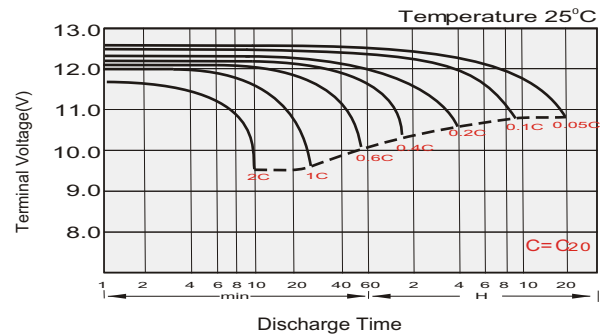
#### T6 Terminal Unit: mm [inches]



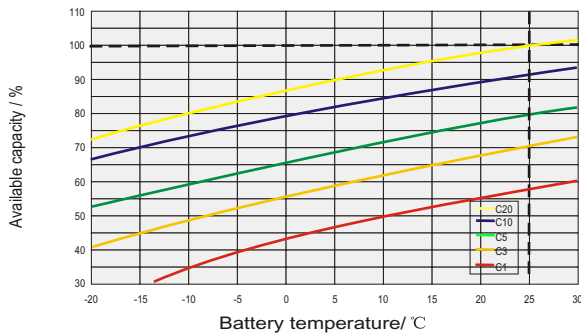
### Float Charging Characteristics



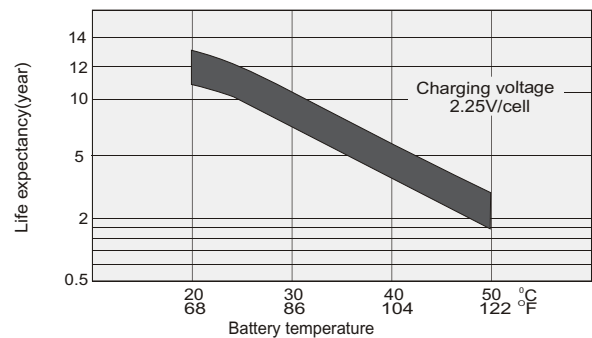
### Discharge Characteristics



### Temperature Effects in Relation to Battery Capacity

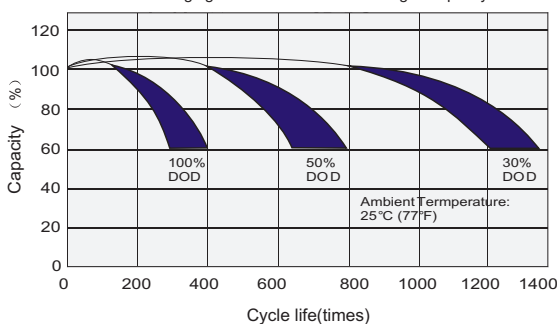


### Effect of Temperature on Long Term Float Life

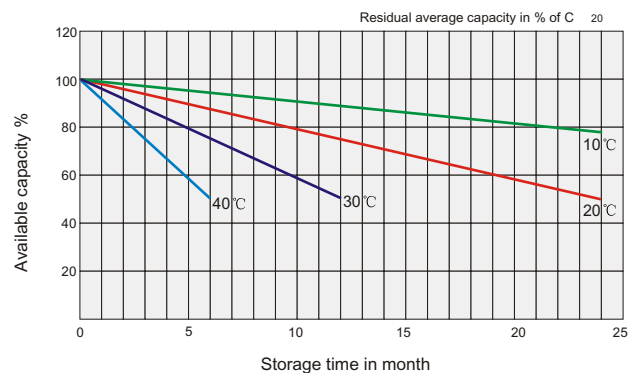


### Cycle Life in Relation to Depth of Discharge

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



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