

GEL SERIES-GEL Battery

463-8950(12V170AH)

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	170.0AH	
Dimension	Length	532±3mm (20.9 inches)
	Width	207±2mm (8.15 inches)
	Container Height	214±2mm (8.42 inches)
	Total Height (with Terminal)	220±2mm (8.66 inches)
Approx Weight	Approx 52.1 kg (114.9lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	170.0 AH/8.50A	(20hr, 1.80V/cell, 25°C/77°F)
	158.0 AH/15.8A	(10hr, 1.75V/cell, 25°C/77°F)
	136.0 AH/27.2A	(5hr, 1.75V/cell, 25°C/77°F)
	118.2 AH/39.4A	(3hr, 1.75V/cell, 25°C/77°F)
	93.6 AH/93.6A	(1hr, 1.67V/cell, 25°C/77°F)
Max. Discharge Current	1530A (5s)	
Internal Resistance	Approx 4.0mΩ	
Operating Temp. Range	Discharge : -20~55°C (-4~131°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -20~50°C (-4~122°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 12A.	
	Voltage 14.1V~14.4V (14.1V is optimum) at 25°C(77°F).	
Standby Use	No limit on Initial Charging Current .Voltage 13.5V~13.8V (13.5V is optimum) at 25°C(77°F) . Coefficient -18mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	GEL 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

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	143.8	112.9	86.1	72.1	45.7	34.9	28.9	24.9	21.5	19.0	17.2	15.7	14.8	8.16
1.80V/cell	164.7	126.1	95.0	79.6	49.5	37.3	30.6	26.2	22.6	19.9	18.0	16.5	15.5	8.50
1.75V/cell	185.1	138.7	102.7	85.2	52.4	39.4	32.0	27.2	23.4	20.6	18.6	17.0	15.8	8.67
1.70V/cell	199.4	148.6	109.0	90.1	55.6	41.1	33.1	28.1	24.2	21.3	19.1	17.5	16.2	8.78
1.67V/cell	207.6	154.4	112.9	93.5	57.0	42.4	33.9	28.6	24.6	21.6	19.4	17.7	16.4	8.87
1.60V/cell	224.9	165.2	121.3	99.3	59.3	44.1	35.2	29.5	25.2	22.1	19.8	18.1	16.7	8.99

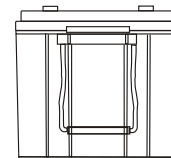
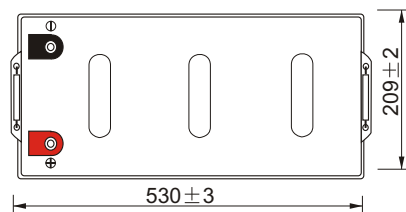
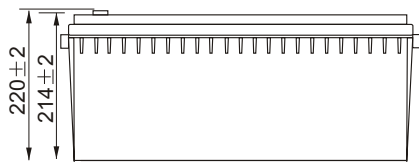
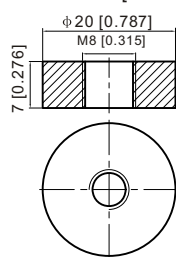
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	275.3	217.5	167.0	140.3	89.4	68.3	56.8	49.2	42.6	37.8	34.2	31.3	29.6	16.3
1.80V/cell	311.2	240.8	182.8	154.1	96.3	72.9	59.9	51.5	44.6	39.5	35.7	32.8	30.9	16.9
1.75V/cell	345.8	262.4	196.2	164.1	101.7	76.8	62.6	53.3	46.0	40.7	36.8	33.7	31.4	17.3
1.70V/cell	368.5	278.6	206.8	172.7	107.3	79.8	64.5	54.8	47.5	42.0	37.8	34.6	32.1	17.5
1.67V/cell	379.2	286.4	212.7	178.1	109.5	82.0	65.9	55.8	48.2	42.5	38.3	35.0	32.5	17.6
1.60V/cell	406.4	303.7	226.8	188.1	113.4	84.9	68.1	57.4	49.2	43.3	38.9	35.7	33.1	17.8

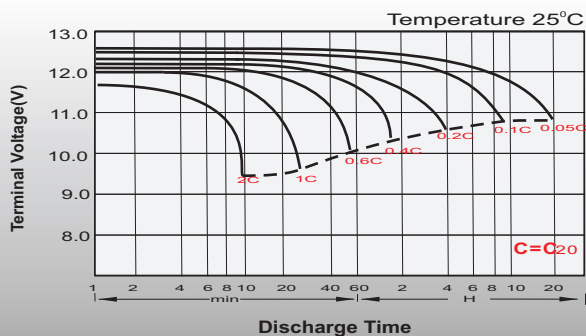
Dimensions

T11 Terminal

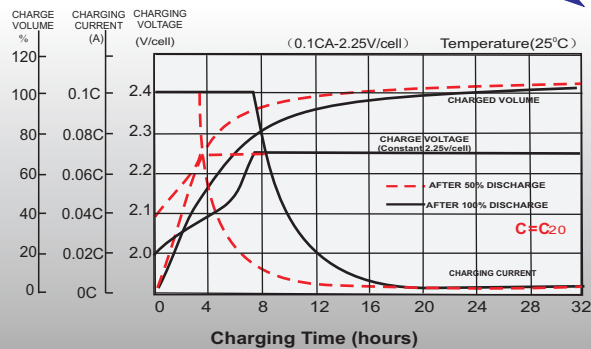
Unit: mm [inches]



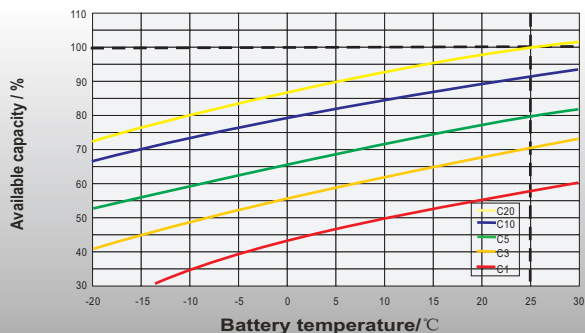
Discharge Characteristics



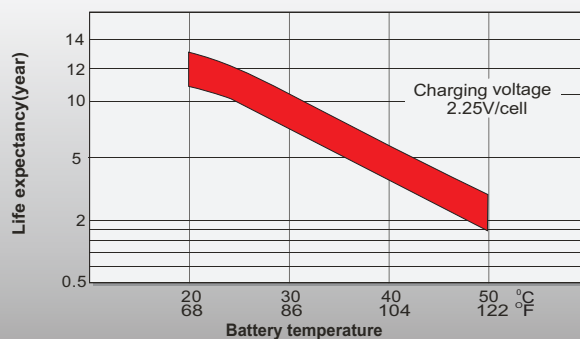
Float Charging Characteristics



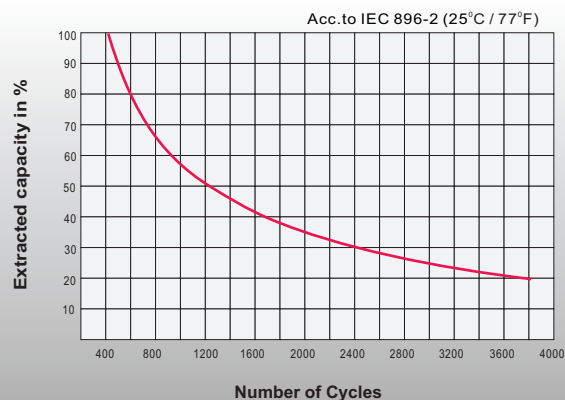
Temperature Effects in Relation to Battery Capacity



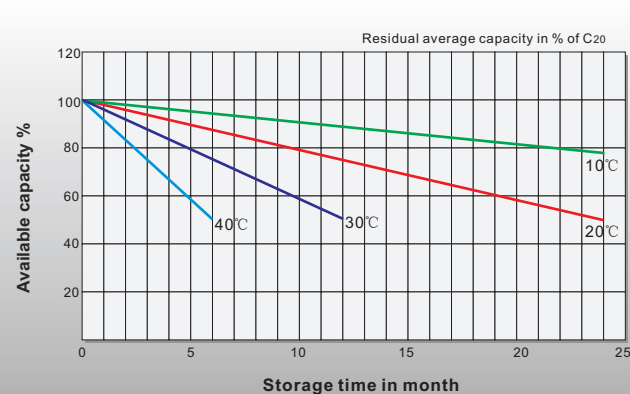
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



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