

# CS2-150(2V150AH)

## Valve Regulated Lead-acid battery

### Specification

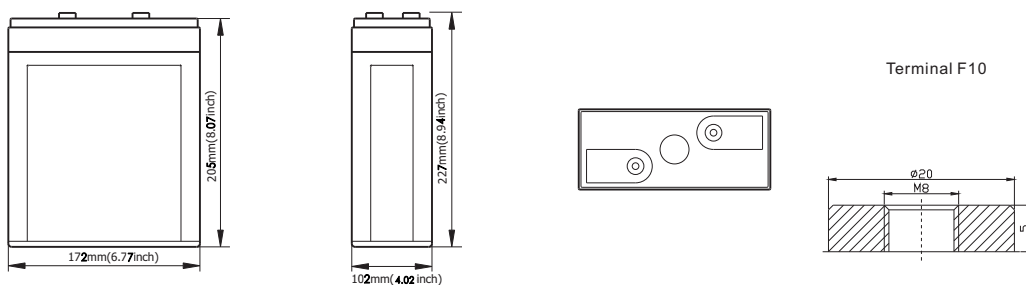
Nominal Voltage	2V	
Nominal Capacity(10HR)	150.0AH	
Dimension	Length	172±2mm
	Width	102±2mm
	Container Height	205±2mm
	Total Height with terminal	205±2mm
Approx Weight	Approx 8 kgs	
Container Material	ABS	
Rated Capacity	150.0AH@10hr rate to 1.75V per cell at 25°C	
Max.Discharge Current	750A(5s)	
Internal Resistance	Approx 0.80 mΩ	
Operating Temp.Range	Discharge: -20~60°C	
	Charge : -20~50°C	
	Storage: -20~60°C	
Normal Temp.Range	25±5°C	
Equilization cycle service	2.43V-2.47V at 25°C,Max.charging current 30A	
Float charging voltage	2.27V-2.30V at 25°C	
Self discharge	Batteries shall be charged within 6 months storage	



### Applications

- ◆ UPS, EPS, communication system
- ◆ solar system, computer, lights and
- ◆ signal, medical, radio, radar, mobile station, elevator, satellite stations,
- ◆ pump system, boats, golf trolley, toys, flash for mining, fire alarm

### Dimensions



### Constant Current Discharge (Amperes) at 25 °C

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	203.9	150.4	93.86	57.66	42.79	30.60	26.77	24.43	19.28	15.99
1.65V	193.6	144.3	92.67	55.46	41.60	29.43	26.30	23.65	18.95	15.97
1.70V	180.8	135.4	90.27	54.66	40.30	29.36	26.12	22.37	18.91	15.93
1.75V	160.5	122.4	83.89	51.47	38.70	27.14	25.88	21.70	17.63	15.86
1.80V	138.3	111.0	78.40	49.78	36.41	27.07	25.54	21.41	17.44	15.52
1.85V	116.9	100.3	72.92	46.78	34.31	25.12	23.74	20.55	16.37	14.30

### Constant Power Discharge (Watts/cell) at 25 °C

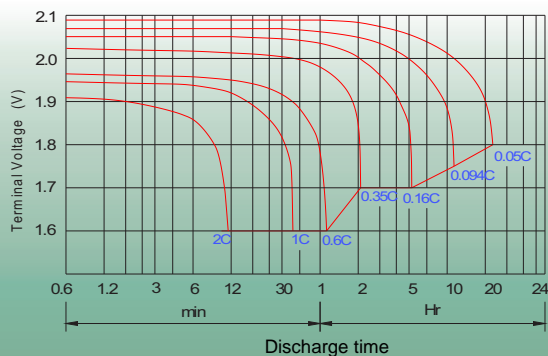
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	8HR	10HR
1.60V	356.7	273.5	174.7	107.6	79.45	57.50	53.73	46.05	37.16	31.33
1.65V	347.1	272.2	173.3	106.2	78.98	56.94	52.83	45.76	36.85	30.83
1.70V	328.9	257.0	171.7	104.6	76.39	56.82	52.60	44.19	36.68	30.75
1.75V	292.2	232.2	161.2	98.88	74.53	53.68	51.77	42.58	35.34	30.34
1.80V	252.1	211.9	153.9	94.48	71.66	53.13	50.56	42.47	34.08	30.19
1.85V	215.7	191.6	142.0	89.45	67.89	49.98	47.51	39.75	32.36	28.05

# CS2-150(2V150AH)

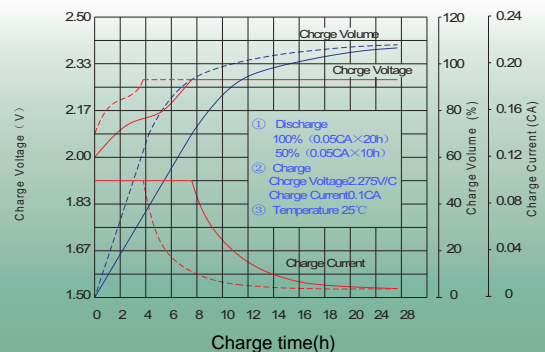
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### Discharge Characteristics

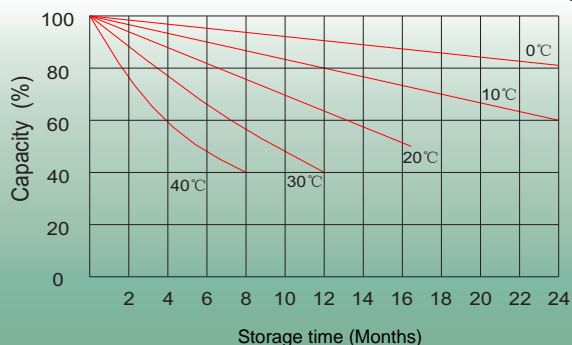
Temperature: 25°C



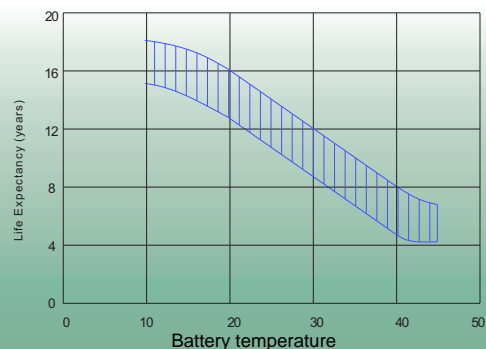
### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Effect of Temperature on Long Term Float Life



The service life of batteries will be affected and changed according to numbers of deep discharge cycles, ambient temperature, charging voltage and current.

When batteries are stored at 25°C, charge batteries once every 6 months. Designed life: 20 years

Charging Methods as below:

Constant Voltage:  $0.2C \times 2h + 2.4 - 2.45V/cell \times 24h$ , Max. current:  $0.2C$

Charging Current:  $0.2C \times 2h + 0.1C \times 12h$

Fast charging:  $0.2C \times 2h + 0.2C \times 6h$