

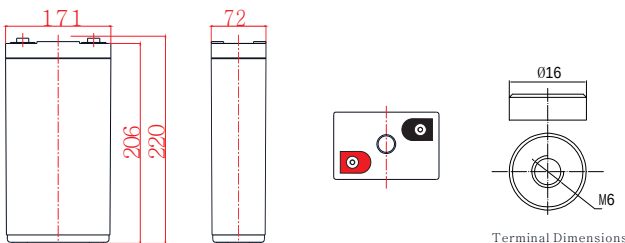


General Features

- High corrosion resistant performance: Pb-Ca multi-alloy grid
- Long life
- Excellent charge acceptance ability
- Excellent deep cycle discharge capability
- Strong high and low temperature performance
- Precision sealing technology



Dimension: 171(L)×72(W)×205(H)×220(TH) Unit: mm



Applications

- Telecommunications system
- Power systems
- UPS/EPS
- Auto control system
- Solar/wind generating storage cyclic
- Other general purpose

Specification

Nominal Voltage	2V		
Nominal Capacity	100Ah		
Design life	10 years		
Terminal	M6		
Approx. Weight	Approx 6.00kg (13.2lbs)		
Container Material	ABS		
Rated Capacity	100Ah	10Hour Rate	(10.0A to 1.80V)
	75.0Ah	3Hour Rate	(25.0A to 1.80V)
	55.0Ah	1Hour Rate	(55.0A to 1.75V)
Internal resistance	Full charged at 25°C: 1.0 mΩ		
Max. Discharge Current	1000A(5S)		
Operating Temperature	Discharge: -20 ~50°C(-4~ 122°F)		
	Charge: -20 ~50°C(-4~ 122°F)		
	Storage: -20 ~50°C(-4~ 122°F)		
Charge Method (25 °C)	Charge current:		Max. 25A ; Recom.10.0A
	Float Charge:2.23-2.27V,recom.2.25V(-3mV/ °C)		
	Equalize charge:2.30-2.35V,recom.2.35V(-4mV/ °C)		
	Cycle charge:2.40-2.50V,recom.2.40V(-5mV/ °C)		
Self discharge	3% of capacity declined per month at 25°C		

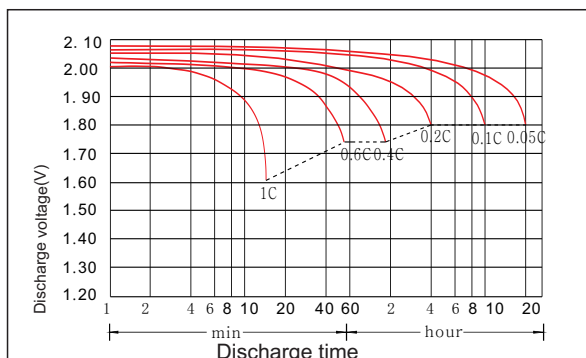
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	177	150	125	81.7	69.7	57.7	44.3	39.3	28.1	21.1	19.4	15.6	13.2	10.8	5.56
1.65V	163	139	117	76.8	66.7	56.7	43.7	38.3	27.4	20.9	18.9	15.5	13.0	10.7	5.49
1.70V	151	129	108	71.9	63.7	55.5	43.0	37.0	26.6	20.6	18.8	15.2	12.8	10.6	5.43
1.75V	134	116	98.9	67.1	61.0	55.0	42.3	35.7	25.8	20.3	18.2	15.0	12.6	10.4	5.33
1.80V	115	102	92.2	62.7	58.3	53.7	41.0	33.7	25.0	19.5	17.8	14.4	12.4	10.0	5.14
1.85V	101	89.8	81.0	55.8	52.0	48.5	40.3	31.4	23.7	19.3	17.2	14.3	12.0	9.90	5.01

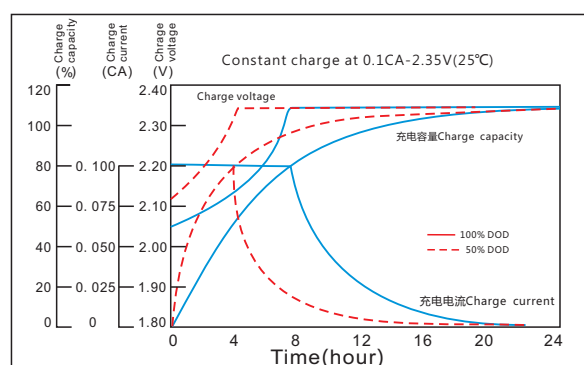
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	297	254	220	149	129	108	83.2	73.8	52.9	40.3	36.9	29.9	25.3	21.0	10.9
1.65V	271	235	208	140	123	107	82.0	72.0	51.5	39.8	36.3	29.5	24.9	20.8	10.8
1.70V	259	217	194	132	118	104	80.8	69.6	50.1	39.1	35.7	29.1	24.5	20.5	10.6
1.75V	234	196	181	123	113	103	79.4	67.2	48.5	38.3	34.6	28.6	24.3	20.2	10.5
1.80V	207	177	171	115	108	101	77.0	63.3	47.0	37.4	33.8	27.6	23.7	19.4	10.1
1.85V	181	157	151	103	97.3	91.5	76.0	59.0	44.6	36.3	32.7	27.2	23.1	19.3	10.0

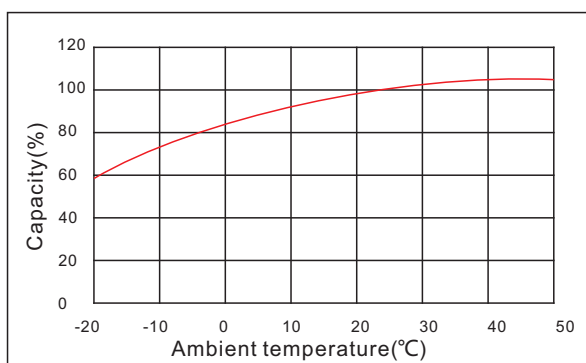
Discharge characteristic



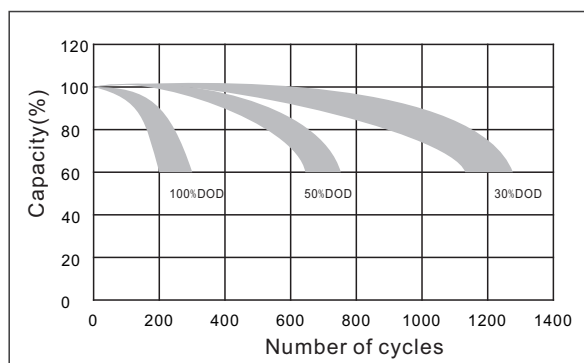
Charging characteristic



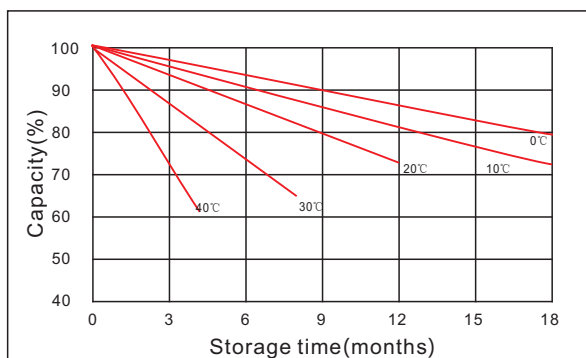
The effect of temperature on capacity



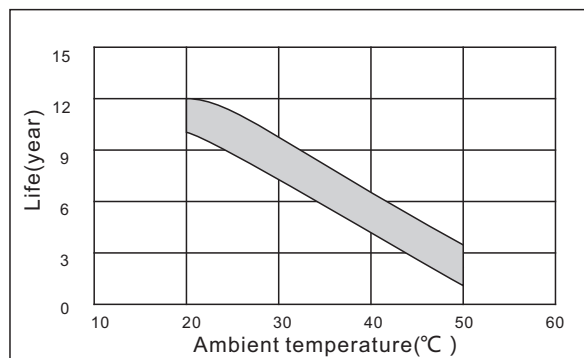
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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