

JM12-190

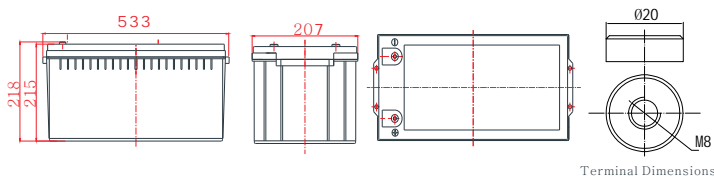


General Features

- High corrosion resistant performance: Pb-Ca multi-alloy grid
- High energy density and power density
- Optimized capability of instant high-current discharging
- Excellent charge acceptance ability
- Excellent deep cycle discharge capability
- Strong high and low temperature performance
- Precision sealing technology
- Long life



Dimension: 533(L) × 207(W) × 215(H) × 218(TH) Unit: mm



Terminal Dimensions

Applications

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

Specification

Nominal Voltage	12V
Nominal Capacity	190Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 53.5kg (117.95lbs)
Container Material	ABS
Rated Capacity	190Ah → 10Hour Rate (19.0A to 10.8V)
	156Ah → 3Hour Rate (52.0A to 10.2V)
	128Ah → 1Hour Rate (128A to 9.6V)
Internal resistance	Full charged at 25°C: 4.0 mΩ
Max. Discharge Current	2280A(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 current:	Max. 47.5A ; Recom. 19A
Charge Method (25°C)	Float Charge: 13.5-13.8V, recom. 13.8V (-18mV/°C)
	Equalize charge: 13.8-14.1V, recom. 14.1V (-24mV/°C)
	Cycle charge: 14.4-15.0V, recom. 14.7V (-30mV/°C)
Self discharge	3% of capacity declined per month at 25°C

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

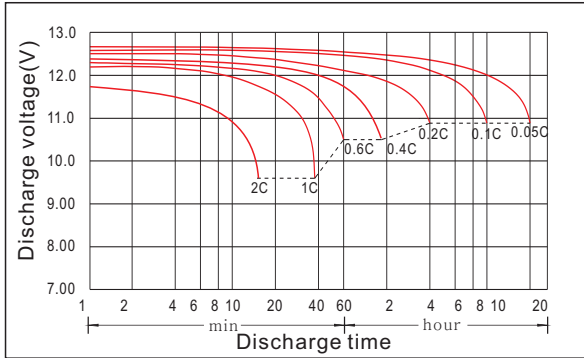
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	670	447	360	219	158	128	80.4	73.3	53.3	38.6	35.7	28.5	23.5	19.8	10.4
1.65V	649	443	349	215	156	127	79.6	73.0	52.7	38.2	35.3	28.2	23.3	19.6	10.4
1.70V	623	440	341	211	155	126	78.9	72.4	52.0	37.8	35.0	27.9	23.1	19.4	10.3
1.75V	573	433	331	210	153	124	78.0	71.3	51.4	37.4	34.7	27.6	22.9	19.2	10.3
1.80V	514	423	308	200	149	122	77.2	70.0	51.0	37.1	33.7	27.4	22.7	19.0	10.2
1.85V	458	390	275	182	138	112	75.0	66.5	48.1	35.9	32.0	26.6	21.8	18.4	10.0

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

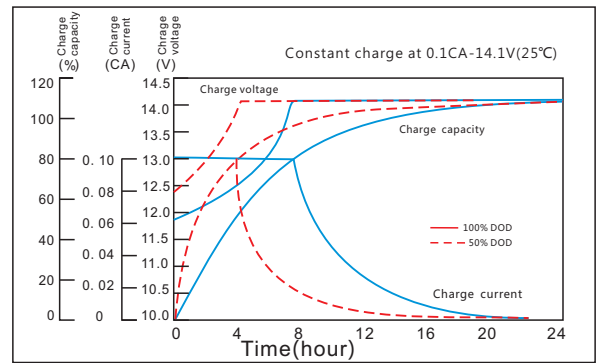
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	1122	756	634	396	291	242	161	139	102	76.0	67.7	55.8	45.6	38.0	20.5
1.65V	1079	750	622	392	289	240	159	139	100	75.2	67.5	55.2	45.2	37.6	20.4
1.70V	1074	744	615	392	286	238	157	138	100	74.5	66.9	54.6	45.0	37.2	20.3
1.75V	1001	738	611	390	284	237	156	137	98.8	73.7	66.5	54.1	44.7	36.9	20.2
1.80V	920	732	578	381	281	235	154	137	98.8	73.0	65.7	53.5	44.3	36.5	20.1
1.85V	822	678	517	350	261	218	152	130	93.7	71.8	62.8	52.6	42.8	35.9	20.0

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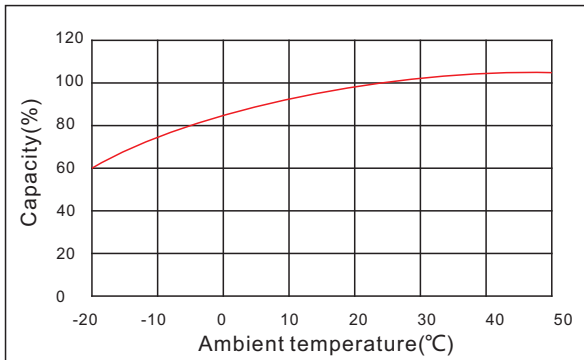
Discharge characteristic



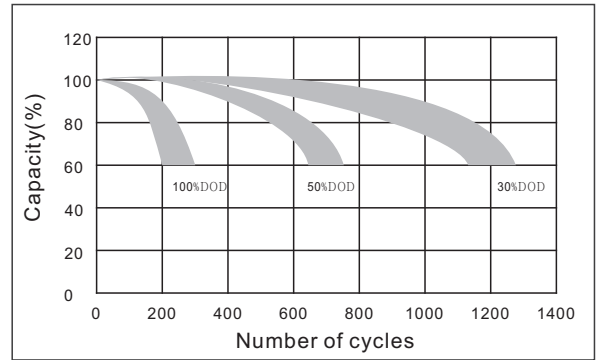
Charging characteristic



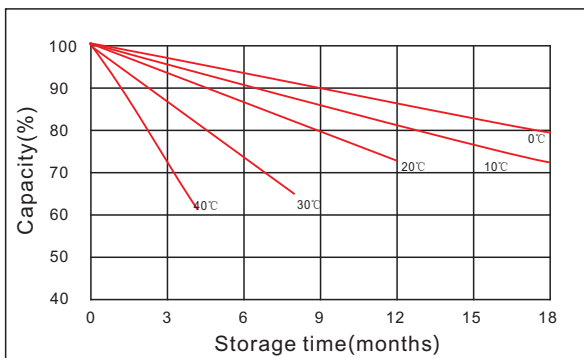
The effect of temperature on capacity



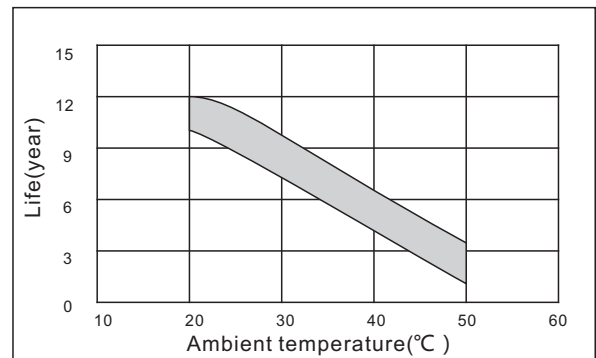
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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