

JM12-110

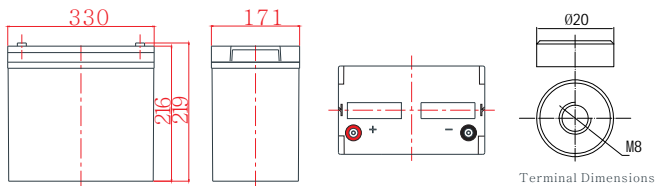


General Features

- 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: 330(L)×171(W)×216(H)×219(TH) Unit: mm



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	110Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 32.0kg (70.55lbs)
Container Material	ABS
Rated Capacity	110Ah → 20Hour Rate (5.50A to 10.5V)
	83.7Ah → 3Hour Rate (27.9A to 10.2V)
	68.8Ah → 1Hour Rate (68.8A to 9.6V)
Internal resistance	Full charged at 25°C: 5.0 mΩ
Max. Discharge Current	1200A(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. 27.5A ; Recom. 11.0A
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)

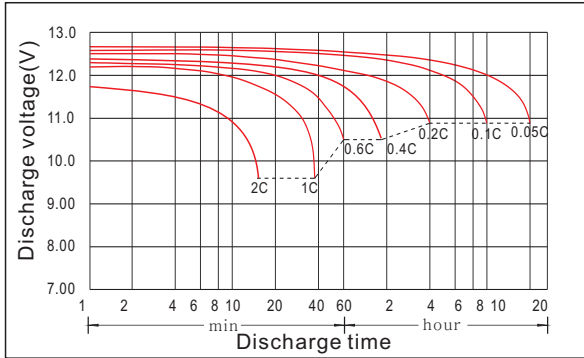
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	360	239	193	118	84.4	68.8	43.2	39.5	28.6	20.8	19.2	15.3	12.7	10.6	5.58
1.65V	350	238	188	116	83.9	68.4	42.8	39.3	28.3	20.5	19.0	15.1	12.6	10.5	5.55
1.70V	335	236	184	113	83.3	67.9	42.4	38.9	27.9	20.3	18.8	15.0	12.5	10.4	5.52
1.75V	309	233	178	112	82.1	67.0	42.0	38.3	27.6	20.1	18.6	14.9	12.4	10.3	5.50
1.80V	276	227	166	107	80.0	65.2	41.6	37.6	27.5	19.9	18.1	14.7	12.3	10.2	5.47
1.85V	246	211	147	98.3	74.1	60.4	40.3	35.8	25.9	19.3	17.3	14.3	11.8	9.92	5.38

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

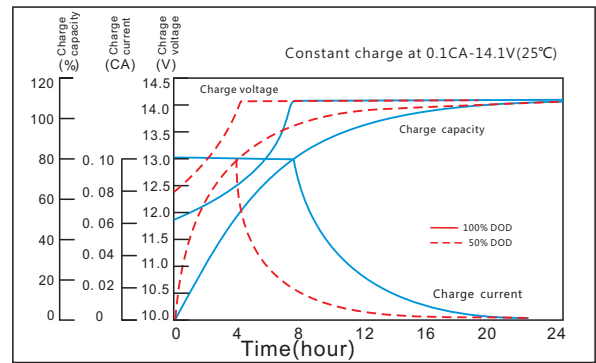
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	604	405	340	213	155	130	86.3	74.6	54.5	40.9	36.5	30.0	24.5	20.4	11.0
1.65V	581	402	335	211	154	129	85.5	74.4	53.8	40.5	36.3	29.6	24.3	20.3	11.0
1.70V	578	399	331	211	153	128	84.5	74.1	53.5	40.1	36.0	29.3	24.2	20.0	10.9
1.75V	539	396	329	210	152	127	83.7	73.7	53.2	39.7	35.8	29.1	24.0	19.8	10.9
1.80V	495	393	311	205	151	126	82.8	73.5	53.0	39.3	35.4	28.8	23.8	19.6	10.8
1.85V	442	367	278	188	141	118	81.6	70.2	50.4	38.6	33.7	28.3	23.0	19.3	10.7

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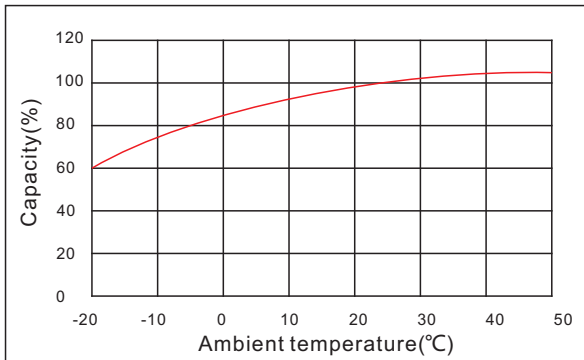
Discharge characteristic



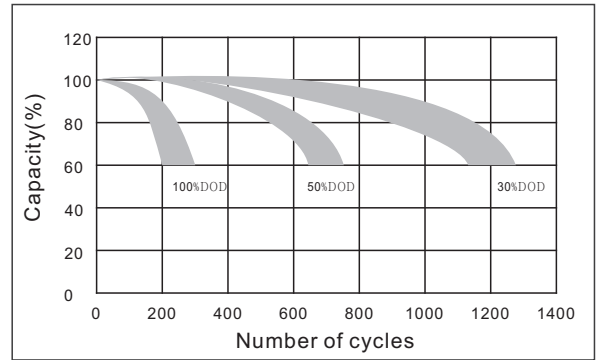
Charging characteristic



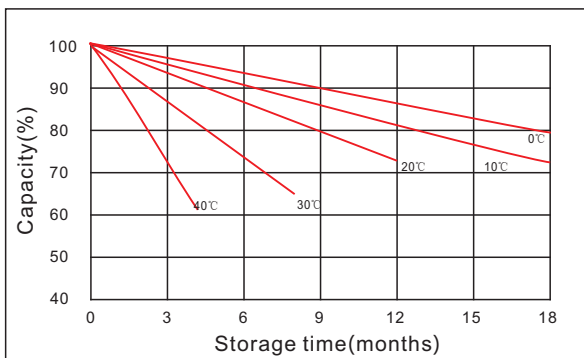
The effect of temperature on capacity



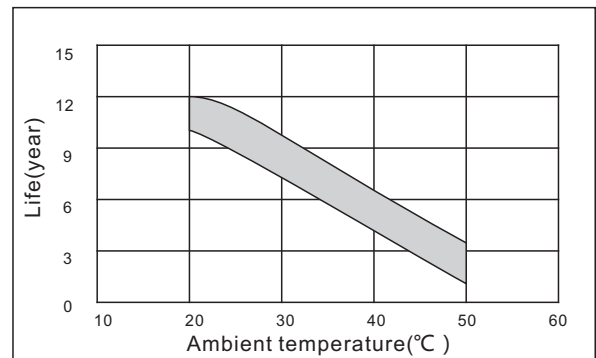
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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