

JM12-220

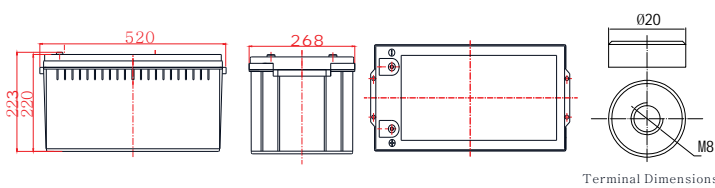


General Features

- > 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: 520(L) × 268(W) × 220(H) × 223(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	220Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 64.0kg (141.10lbs)
Container Material	ABS
Rated Capacity	220.0Ah 10Hour Rate (22.0A to 10.8V)
	168.0Ah 3Hour Rate (56.0A to 10.2V)
	129.0Ah 1Hour Rate (129A to 9.60V)
Internal resistance	Full charged at 25°C: 3.2 mΩ
Max. Discharge Current	2640A(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. 55A ; Recom. 22A
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)

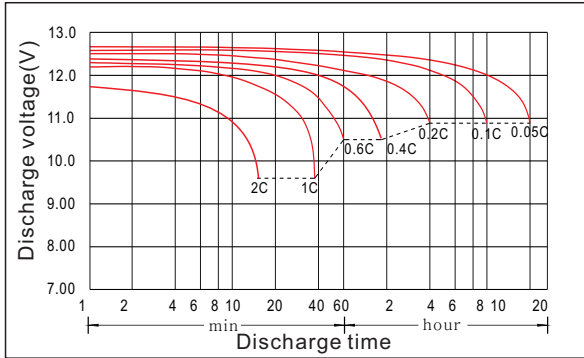
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	677	449	363	220	158	129	93.1	73.8	57.5	44.7	38.5	33.0	27.2	22.9	12.0
1.65V	653	446	349	216	157	128	92.3	73.5	56.8	44.3	38.1	32.7	27.0	22.7	12.0
1.70V	629	443	343	212	156	127	91.1	72.9	56.0	43.7	37.7	32.3	26.7	22.4	11.9
1.75V	577	436	334	211	154	125	90.3	71.8	55.4	43.3	37.4	32.0	26.5	22.2	11.9
1.80V	518	426	309	202	150	122	89.5	70.5	55.0	42.9	36.4	31.7	26.3	22.0	11.8
1.85V	461	393	275	184	138	113	86.6	67.0	51.8	41.5	34.5	30.7	25.2	21.3	11.6

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

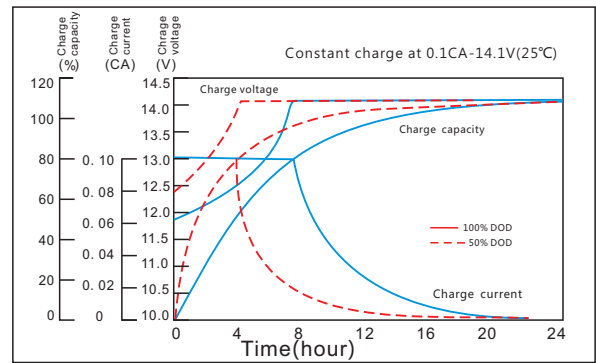
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	1133	761	637	399	293	244	186	140	110	88.0	73.0	64.5	52.8	44.0	23.8
1.65V	1090	755	628	395	290	242	184	140	108	87.2	72.7	63.9	52.4	43.6	23.7
1.70V	1084	749	623	395	288	240	182	139	108	86.2	72.1	63.2	52.1	43.1	23.5
1.75V	1009	743	614	393	286	238	180	138	107	85.4	71.7	62.6	51.7	42.7	23.4
1.80V	927	737	584	384	284	236	178	138	107	84.4	70.9	61.9	51.3	42.2	23.3
1.85V	827	683	518	352	263	219	176	131	101	83.2	67.7	61.0	49.6	41.6	23.1

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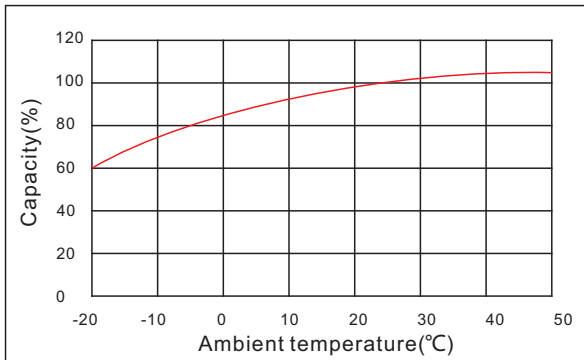
Discharge characteristic



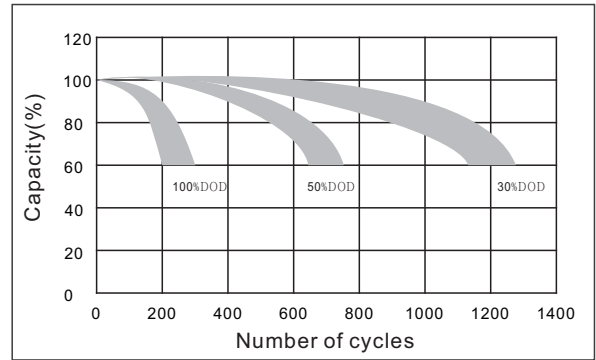
Charging characteristic



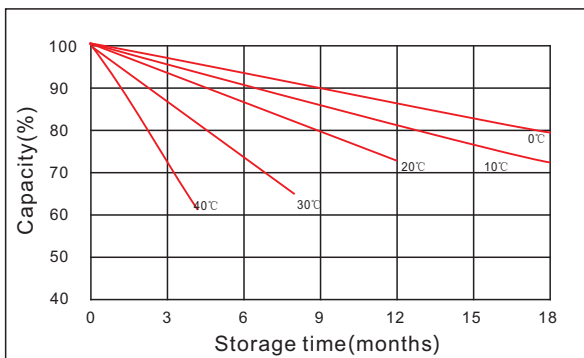
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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