

JM12-85

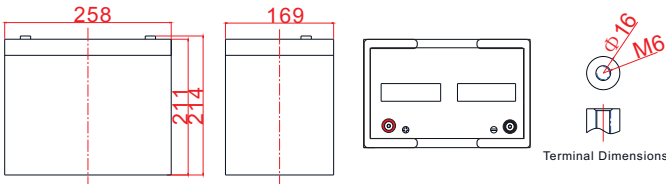


General Features

- > 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: 258(L) × 169(W) × 211(H) × 214(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	85Ah
Design life	10 years
Terminal	M6
Approx. Weight	Approx 26.0kg (57.4lbs)
Container Material	ABS
Rated Capacity	85.0Ah → 10Hour Rate (8.50A to 10.8V)
	64.5Ah → 3Hour Rate (21.5A to 10.8V)
	52.4Ah → 1Hour Rate (52.4A to 10.5V)
Internal resistance	Full charged at 25°C: 6.3 mΩ
Max. Discharge Current	1020A(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. 21.3A; Recom. 8.5A
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)

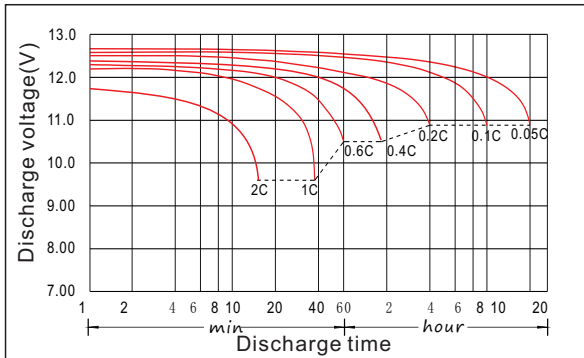
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	300	160	97.9	57.3	32.8	23.8	16.0	10.5	8.84	4.64
1.65V	290	156	96.3	56.8	32.6	23.6	15.8	10.4	8.76	4.61
1.70V	278	153	94.6	56.5	32.4	23.3	15.6	10.3	8.67	4.59
1.75V	256	148	93.7	55.7	31.9	23.0	15.5	10.2	8.59	4.57
1.80V	230	138	89.7	54.2	31.3	22.8	15.1	10.2	8.50	4.55
1.85V	205	123	81.8	50.3	29.8	21.5	14.3	9.74	8.25	4.47

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

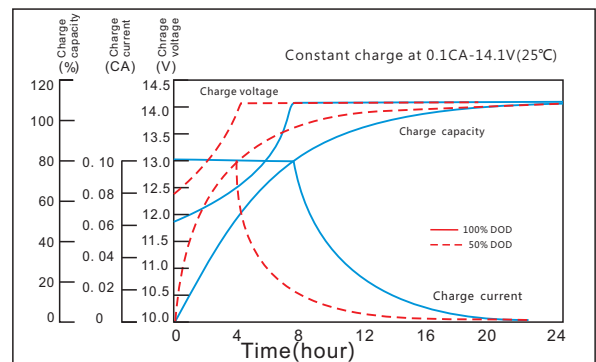
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	503	284	177	108	62.1	45.3	30.3	20.4	17.0	9.18
1.65V	483	278	175	107	61.9	44.7	30.2	20.2	16.8	9.14
1.70V	480	275	175	106	61.6	44.5	29.9	20.2	16.7	9.10
1.75V	448	273	174	106	61.3	44.2	29.8	20.0	16.5	9.05
1.80V	411	258	170	105	61.1	44.1	29.4	19.9	16.4	9.01
1.85V	368	231	156	97.3	58.4	41.9	28.1	19.1	16.0	8.93

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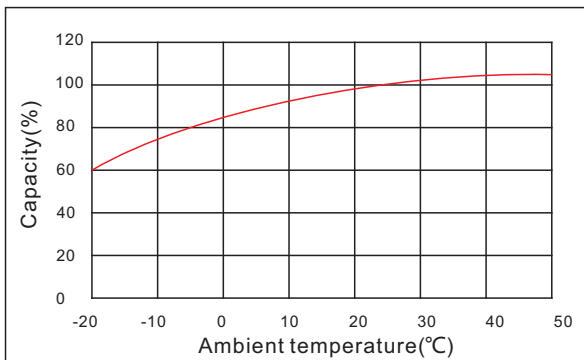
Discharge characteristic



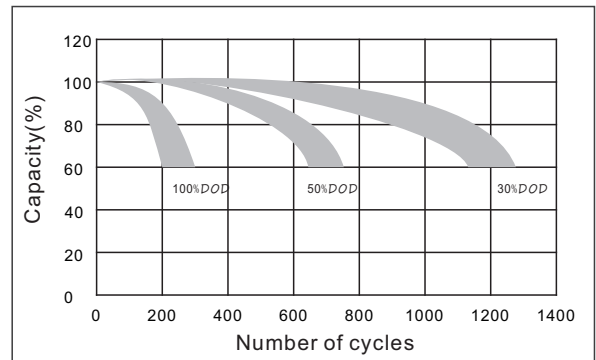
Charging characteristic



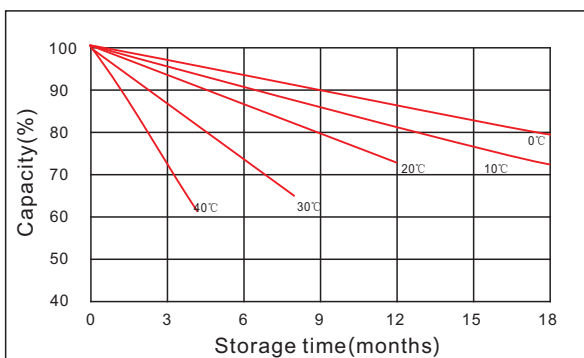
The effect of temperature on capacity



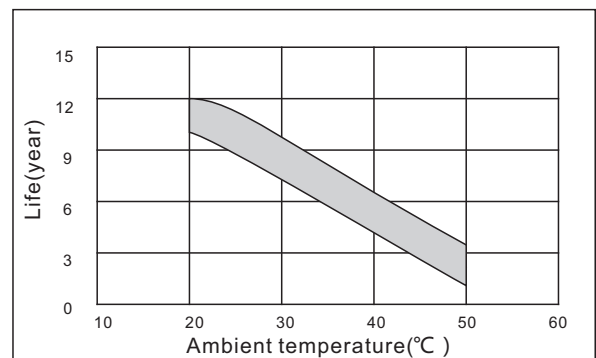
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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