

JM12-65



JM Series lead-acid battery

Executive standard GB/T 19639.1-2014

Applications

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

Specification

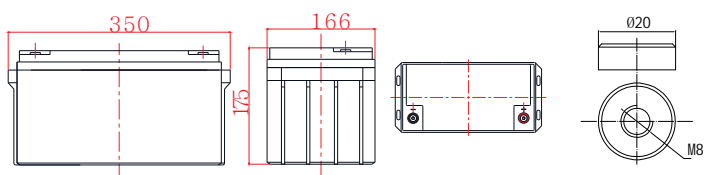
Nominal Voltage	12V
Nominal Capacity	65Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 19.0kg (41.9lbs)
Container Material	ABS
Rated Capacity	65.0Ah → 20Hour Rate (3.25A to 10.5V)
	49.5Ah → 3Hour Rate (16.5A to 10.2V)
	40.7Ah → 1Hour Rate (40.7A to 9.6V)
Internal resistance	Full charged at 25°C: 6.5 mΩ
Max. Discharge Current	780A(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. 16.3A ; Recom.6.5A
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

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: 350(L)×166(W)×175(H)×175(TH) Unit: mm



Terminal Dimensions

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

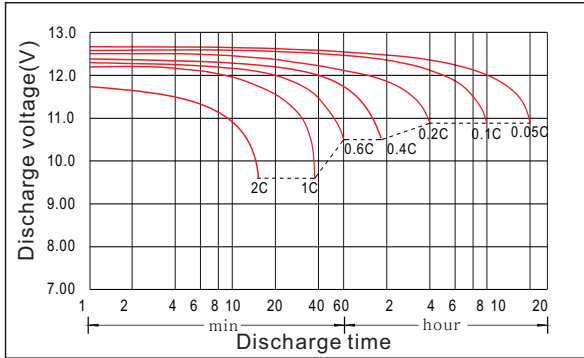
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	213	141	114	69.5	49.9	40.7	25.5	23.3	16.9	12.3	11.3	9.05	7.46	6.28	3.30
1.65V	206	140	111	68.3	49.6	40.4	25.3	23.2	16.7	12.2	11.2	8.91	7.39	6.22	3.28
1.70V	198	139	109	67.1	49.2	40.1	25.1	23.0	16.5	12.0	11.1	8.88	7.34	6.16	3.26
1.75V	182	137	105	66.6	48.6	39.6	24.8	22.7	16.3	11.9	11.0	8.79	7.27	6.10	3.25
1.80V	163	134	97.5	63.6	47.3	38.5	24.5	22.3	16.3	11.8	10.7	8.70	7.22	6.04	3.23
1.85V	146	124	87.2	58.1	43.7	35.7	23.9	21.1	15.2	11.4	10.2	8.45	6.92	5.86	3.18

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	357	240	202	125	92.1	76.8	51.0	44.1	32.2	24.1	21.5	17.7	14.5	12.1	6.52
1.65V	343	238	198	124	91.5	76.2	50.5	43.9	31.8	24.0	21.5	17.6	14.4	12.0	6.49
1.70V	341	236	195	124	90.8	75.7	49.8	43.7	31.6	23.6	21.3	17.3	14.3	11.8	6.46
1.75V	319	234	194	124	90.1	75.0	49.4	43.6	31.6	23.4	21.1	17.2	14.2	11.7	6.43
1.80V	293	232	184	121	89.3	74.5	49.0	43.5	31.3	23.2	20.9	17.0	14.1	11.6	6.40
1.85V	261	215	164	111	83.0	69.2	48.2	41.5	29.7	22.8	20.0	16.7	13.6	11.4	6.34

JM12-65

Discharge characteristic



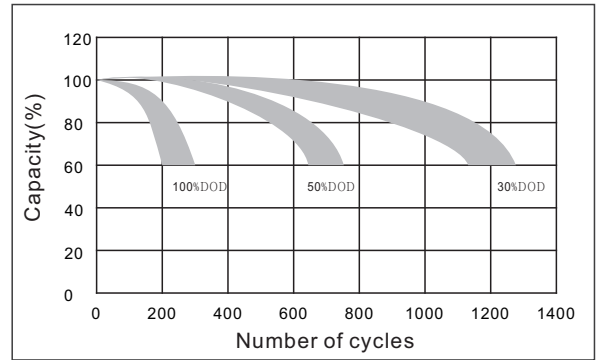
Charging characteristic



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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