

## JM12-150

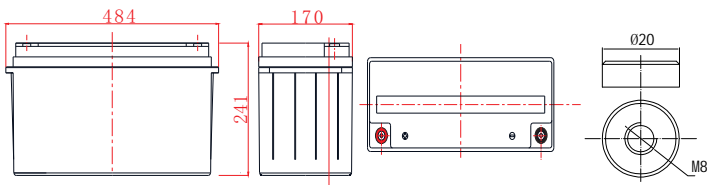


### General Features

- 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: 484(L) × 170(W) × 241(H) × 241(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	150Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 42.0kg (92.59lbs)
Container Material	ABS
Rated Capacity	150.0Ah 20Hour Rate (7.50A to 10.5V)
	114.3Ah 3Hour Rate (38.1A to 10.2V)
	96.0Ah 1Hour Rate (96.0A to 9.6V)
Internal resistance	Full charged at 25°C: 4.8 mΩ
Max. Discharge Current	1800A(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. 37.5A ; Recom. 15A
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)

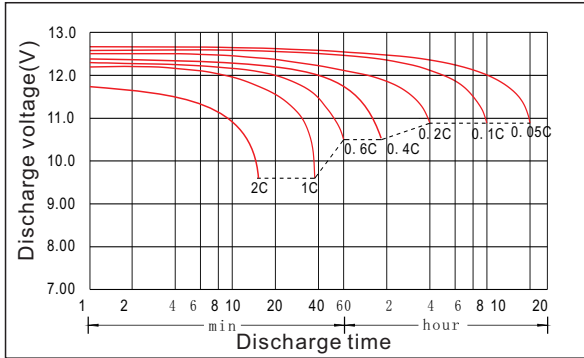
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	503	334	271	164	118	96.0	60.6	55.1	39.0	29.1	26.2	21.5	17.6	14.9	7.61
1.65V	486	332	262	162	117	95.4	59.8	54.8	38.7	28.7	26.0	21.2	17.5	14.7	7.58
1.70V	468	330	256	158	116	94.7	59.4	54.3	38.1	28.5	25.7	21.0	17.3	14.6	7.53
1.75V	430	325	247	156	114	93.3	58.6	53.5	37.7	28.1	25.4	20.8	17.2	14.4	7.50
1.80V	384	316	230	150	112	90.9	58.2	52.6	37.5	27.9	24.8	20.6	17.1	14.3	7.47
1.85V	344	293	205	137	103	84.3	56.5	49.9	35.3	27.1	23.6	20.0	16.4	13.9	7.33

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

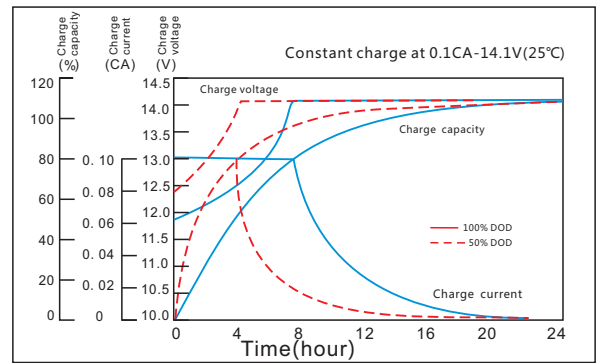
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	846	568	472	296	218	182	121	104	74.4	57.2	49.7	41.9	34.3	28.6	15.1
1.65V	815	565	469	295	217	181	119	104	73.5	56.6	49.4	41.5	34.0	28.3	15.0
1.70V	808	558	462	293	215	179	118	103	73.0	56.0	49.1	41.1	33.8	28.0	14.9
1.75V	750	552	456	292	212	177	117	103	72.5	55.6	48.8	40.8	33.7	27.8	14.9
1.80V	691	549	432	284	211	176	116	103	72.4	55.0	48.2	40.3	33.2	27.5	14.8
1.85V	616	509	383	260	196	163	114	97.9	68.8	54.0	46.0	39.6	32.3	27.0	14.6

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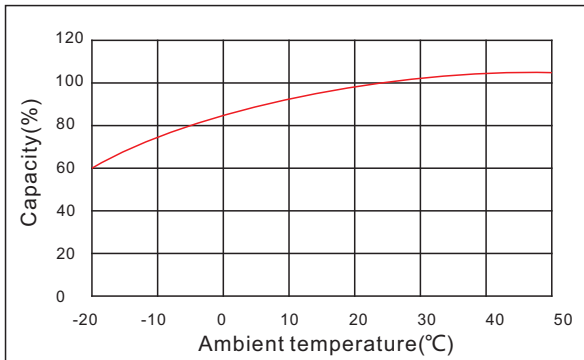
**Discharge characteristic**



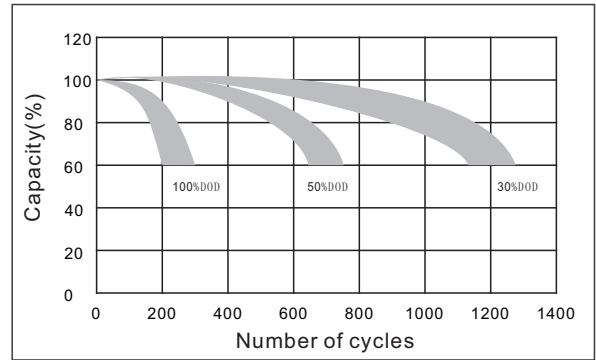
**Charging characteristic**



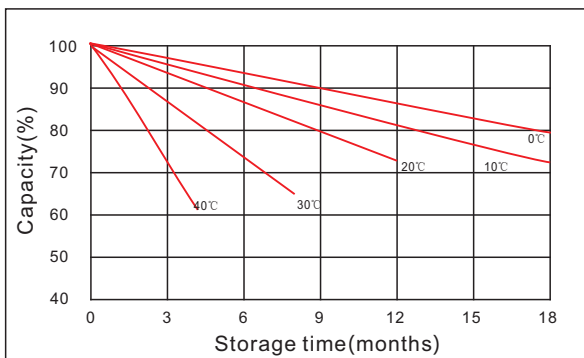
**The effect of temperature on capacity**



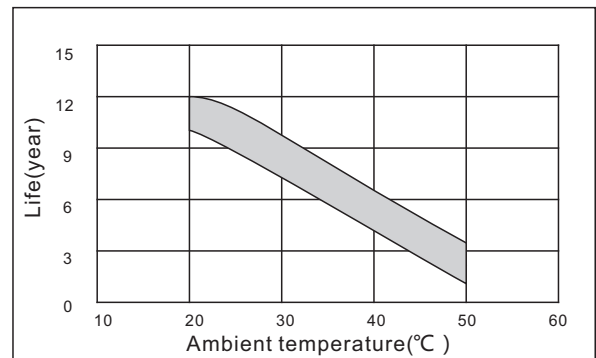
**The effect of discharge depth on cycle life**



**Curves of self-discharge**



**The effect of temperature on float life**



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