# DM Series
# 6-DM-125 12V125Ah

DM series battery uses latest AGM technology with longer cycle life. It is suitable for large current and deep cyclic applications. It can be used in e-vecicles, sightseeing, golf and logistics cars.

## Benefits

- Up to 700 cycles 80% DOD
- Good large current discharge performance
- High gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Easy installation and handling

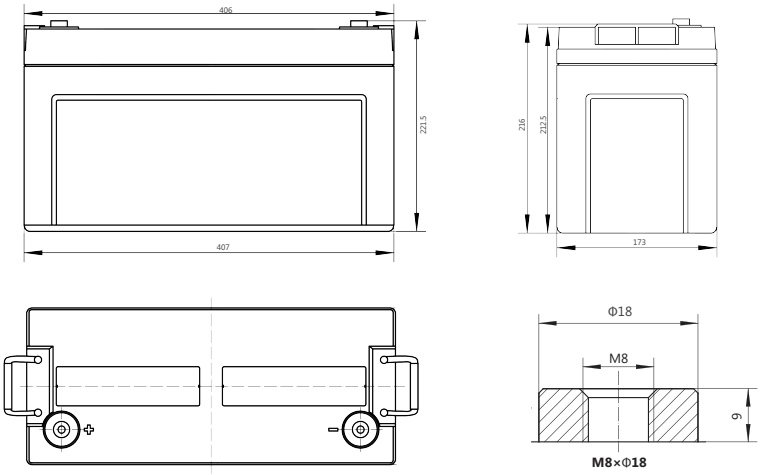
## Applications

- Electrical Vehicle
- Mixture Electrical vehicle

## Standards

- QC/T 742
- IEC61982-3
- GB/T 7403.1
- GB/T 32620-2016

## Drawing




## Specifications

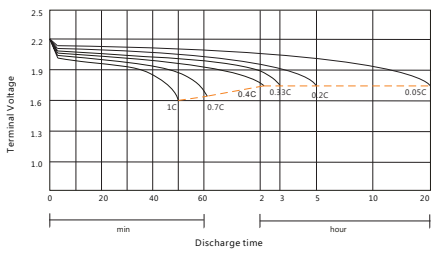
| | | | | |
|---|---|---|---|---|
| Battery Model | 6-DM-125 | | | |
| Design Life (80% DOD) | 700 cycles | | | |
| Capacity (Ah, 25℃) | 20HR (6.75A, 1.75V) | 5HR (25.0A, 1.75V) | 3HR (40.0A, 1.75V) | 2HR(57.54A, 1.75V) |
| | 135 | 125 | 120 | 115 |
| Dimensions (mm) | Length | Width | Height | Total Height |
| | 407 | 173 | 216 | 221.5 |
| Approx. Weight (kg) | 41.0 | | | |
| Reference Internal Resistance (mΩ) | 2.9±15% ( full charged @ 25℃,testing device:HIOKI BT3562) | | | |
| Maximum Discharge Current (A/10 Sec.) | 1080 | | | |
| Self-Discharge (25℃) | ≤3% per month | | | |
| Charge Voltage (V/cell, 25℃) | Cycle use | | Float use | |
| | 2.45 (-3mV/℃/cell), max charge current: 20A | | 2.35 (-3mV/℃/cell) | |

## Discharge Data

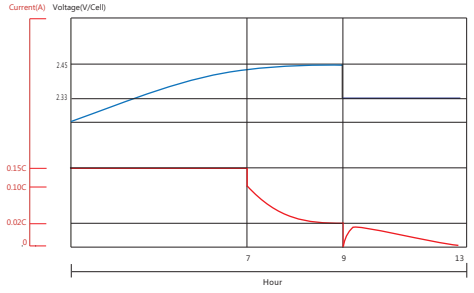
| Constant Current Discharge Data (25℃, A) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| End Voltage (V/cell) | min | | | | | h | | | | | |
| | 10 | 20 | 30 | 45 | 60 | 1.5 | 2 | 3 | 5 | 10 | 20 |
| 1.60 | 329.1 | 192.4 | 144.6 | 107.55 | 90.94 | 72.12 | 59.32 | 40.84 | 25.45 | 13.23 | 6.851 |
| 1.65 | 321.8 | 188.6 | 142.3 | 105.83 | 89.60 | 71.13 | 58.69 | 40.60 | 25.32 | 13.16 | 6.811 |
| 1.70 | 313.3 | 184.0 | 139.2 | 103.92 | 88.41 | 70.35 | 58.12 | 40.36 | 25.17 | 13.08 | 6.777 |
| 1.75 | 306.0 | 180.5 | 136.8 | 102.40 | 87.24 | 69.52 | 57.54 | 40.00 | 25.00 | 13.02 | 6.750 |
| 1.80 | 291.3 | 172.9 | 131.7 | 98.92 | 84.68 | 67.71 | 56.24 | 39.22 | 24.61 | 12.86 | 6.695 |

| Constant Power Discharge Data (25℃, W/cell) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| End Voltage (V/cell) | min | | | | | h | | | | | |
| | 10 | 20 | 30 | 45 | 60 | 1.5 | 2 | 3 | 5 | 10 | 20 |
| 1.60 | 578.2 | 346.4 | 265.8 | 200.8 | 172.1 | 138.2 | 114.94 | 80.07 | 50.33 | 26.32 | 13.67 |
| 1.65 | 575.5 | 344.8 | 264.7 | 199.7 | 171.0 | 137.1 | 114.39 | 79.98 | 50.27 | 26.25 | 13.62 |
| 1.70 | 568.2 | 340.3 | 261.8 | 198.1 | 170.2 | 136.7 | 114.08 | 79.91 | 50.17 | 26.17 | 13.59 |
| 1.75 | 562.8 | 338.3 | 260.1 | 197.2 | 169.5 | 136.3 | 113.83 | 79.64 | 50.00 | 26.12 | 13.57 |
| 1.80 | 547.2 | 329.5 | 253.7 | 192.6 | 166.3 | 133.9 | 111.9 | 78.44 | 49.38 | 25.87 | 13.50 |

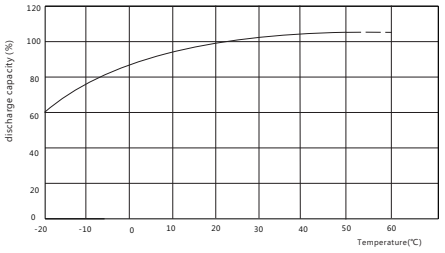
## Performance Curve



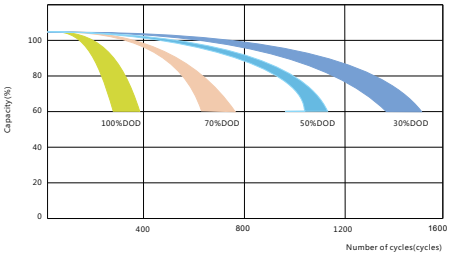

Discharging performance




Charge performance




Discharge capacity vs. temperature




Cycles vs. discharge depth

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ISO9001 ISO14001 ISO18001 SA8000

All data shall be changed without notice, Sacred Sun reserves the right to explain and update the information contained hereinto.