

# DM Series

## 6-DM-165 12V165Ah

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-vehicles, 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

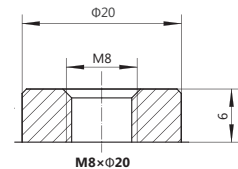
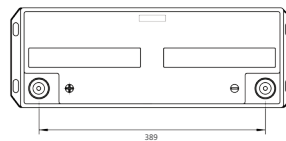
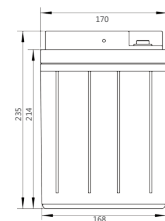
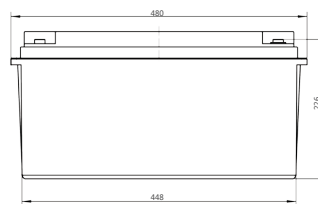
### Applications

- Electrical Vehicle
- Mixture Electrical vehicle

### Standards

- GB/T 18332.1
- QC/T 742
- IEC61982-3
- GB/T 7403.1
- GB/T 23636

### Drawing



### Specifications

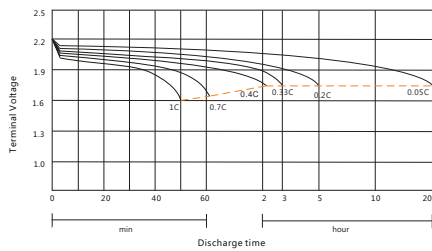
Battery Model	6-DM-165			
Design Life (80% DOD)	700 cycles			
Capacity (Ah, 25°C)	20HR (8.65A, 1.75V)	5HR (33.0A, 1.75V)	3HR (50.0A, 1.75V)	2HR(67.5A, 1.75V)
	173	165	150	135
Dimensions (mm)	Length	Width	Height	Total Height
	480	170	235	235
Approx. Weight (kg)	52.0			
Reference Internal Resistance (mΩ)	3.8±15% ( full charged @ 25 °C,testing device:HIOKI BT3562)			
Maximum Discharge Current (A/10 Sec.)	1340			
Self-Discharge (25°C)	≤ 3% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.45 (-3mV/°C/cell), max charge current: 25A		2.35 (-3mV/°C/cell)	

## Discharge Data

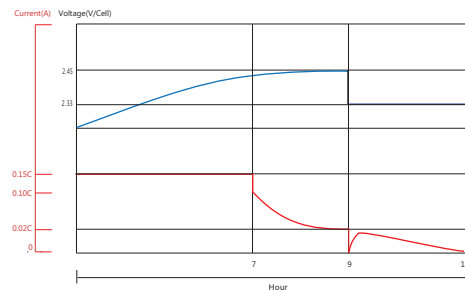
Constant Current Discharge Data (25°C, A)											
End Voltage (V/cell)	min					h					
	10	20	30	45	60	1.5	2	3	5	10	20
1.60	464.6	266.1	193.2	158.0	122.6	85.37	68.11	50.41	33.24	17.30	8.692
1.65	450.1	262.1	192.1	157.4	122.2	85.06	67.91	50.27	33.15	17.26	8.672
1.70	440.6	259.7	191.3	156.8	121.7	84.82	67.74	50.15	33.07	17.23	8.657
1.75	427.8	255.8	190.0	156.0	121.2	84.50	67.50	50.00	33.00	17.20	8.650
1.80	406.2	244.4	182.5	150.4	117.4	82.18	65.91	49.00	32.53	17.01	8.592

Constant Power Discharge Data (25°C, W/cell)											
End Voltage (V/cell)	min					h					
	10	20	30	45	60	1.5	2	3	5	10	20
1.60	816.2	479.1	355.0	294.8	232.0	163.6	131.97	98.83	65.73	34.42	17.34
1.65	805.1	479.3	357.4	297.0	233.2	164.0	132.35	99.03	65.79	34.42	17.34
1.70	799.3	480.5	359.7	299.1	234.4	164.8	132.97	99.29	65.91	34.48	17.37
1.75	786.8	479.3	361.3	300.4	235.5	165.6	133.54	99.55	66.00	34.50	17.40
1.80	761.7	464.3	350.7	292.3	230.2	162.2	130.9	97.81	65.24	34.23	17.32

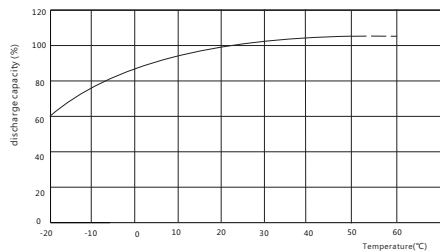
## Performance Curve



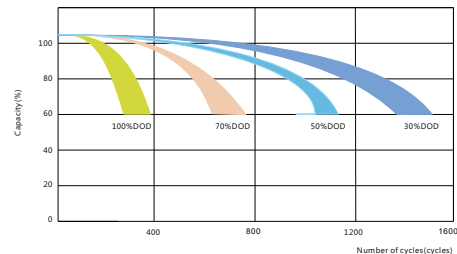
Discharging performance



Charge performance



Discharge capacity vs. temperature



Cycles vs. discharge depth

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