DM Series
4-DM-170 8V170Ah

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

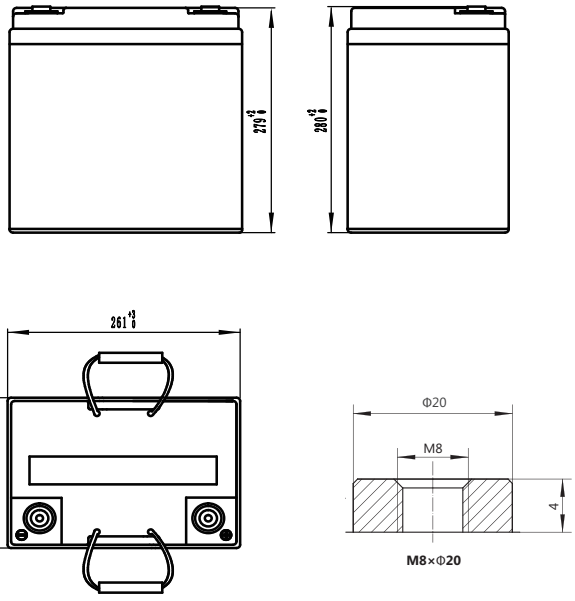
Applications

- Electrical Vehicle
- Mixture Electrical vehicle

Standards

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

Drawing



Specifications

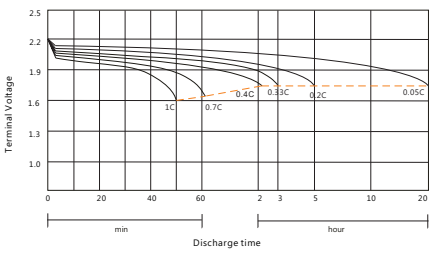
Battery Model	4-DM-170			
Design Life (80% DOD)	700 cycles			
Capacity (Ah, 25℃)	20HR (9.25A, 1.75V)	5HR (34.0A, 1.75V)	3HR (50.0A, 1.75V)	2HR(70A, 1.75V)
	185	170	150	140
Dimensions (mm)	Length	Width	Height	Total Height
	262	180	279	280
Approx. Weight (kg)	36.0			
Reference Internal Resistance (mΩ)	2.0±15% (full charged @ 25℃,testing device:HIOKI BT3562)			
Maximum Discharge Current (A/10 Sec.)	1350			
Self-Discharge (25℃)	≤3% per month			
Charge Voltage (V/cell, 25℃)	Cycle use		Float use	
	2.45 (-3mV/℃/cell), max charge current: 25A		2.35 (-3mV/℃/cell)	

Discharge Data

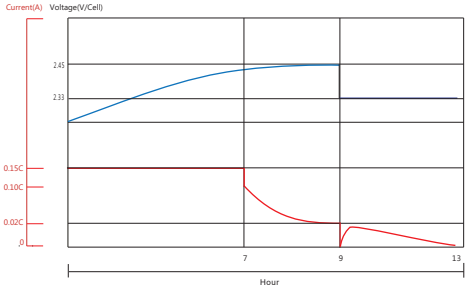
Constant Current Discharge Data (25℃, A)											
End Voltage (V/cell)	min					h					
	10	20	30	45	60	1.5	2	3	5	10	20
1.60	396.9	234.9	174.4	135.49	113.67	87.15	72.28	51.38	34.74	18.29	9.374
1.65	388.0	230.3	171.6	133.32	112.01	85.95	71.45	50.87	34.44	18.18	9.328
1.70	377.7	224.7	167.9	130.91	110.51	85.01	70.62	50.40	34.22	18.08	9.287
1.75	369.0	220.5	165.0	129.00	109.05	84.00	70.00	50.00	34.00	18.00	9.250
1.80	344.2	207.4	156.1	122.8	104.3	80.72	67.56	48.48	33.17	17.65	9.107

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	697.2	423.1	320.6	252.9	214.6	166.2	139.14	99.76	68.11	36.08	18.59
1.65	694.0	421.1	319.2	251.1	213.3	165.1	138.48	99.32	67.79	36.02	18.57
1.70	685.2	415.6	315.3	248.6	211.8	164.3	137.72	99.01	67.72	35.99	18.56
1.75	678.7	412.3	312.2	246.6	210.2	163.1	137.14	98.62	67.60	35.95	18.55
1.80	644.5	392.1	297.9	236.3	202.0	157.6	132.8	96.01	66.24	35.33	18.29

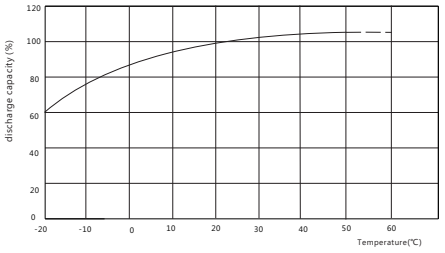
Performance Curve



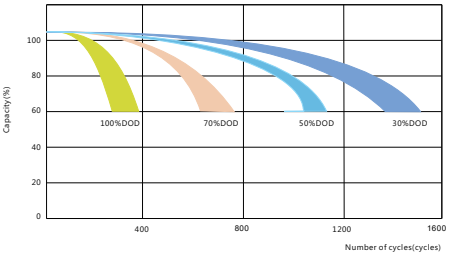
Discharging performance



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.