DMF Series
Motive Battery

6-DMF-32

12Volt

32ah @2hr
42ah @20hr

VRLA AGM-GEL / Non Spilable / Maintenance Free

AEG MOTIVE ENERGY

EVF series are designed to provide superior performance to power your low speed electric vehicle. AGM (absorbed glass mat) gel (fumed silica) technology combined with lasted innovative design, results in a battery that of offers increaed power, longer life and excellent reliability. Valve regulated sealed type provide a 100% maintenance free motive battery.

Confidence is knowing the battery, will outlast keep your forklift, golf cart, sweeper, wheelchair moving



APPLICATION

A whole range of EV applications including but not limited to:



E-scooter



Electric Tricycle

FEATURE

- Anti-vibration effect: adopting enhanced vibration-resistance design, battery can be used in low speed electric vehicle without a shock proof system.
- Good recovery performance: adopting the unique formula of active materials, the battery is resistance to deep discharging and has good recovery performance
- Excellent big current discharge performance: adopting low resistance material, the inner resistance is smaller
- Low/High temperature resistance: suitable for indoor and outdoor use in varies environment.
- Patented nanometer level fumed silica gel electrolyte
- Strict quality control manufacturing processes, ISO9001 approve
- IEC, CE, RoHS, ISO9001,IS014001

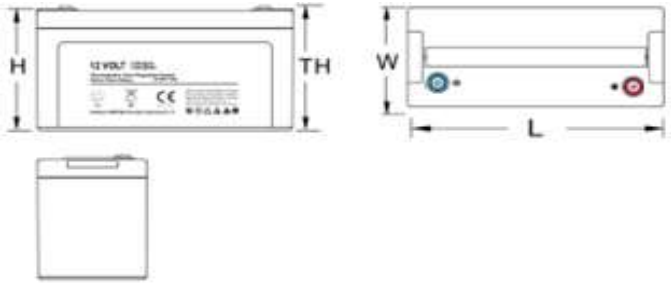
SPECIFICATION

Nominal Voltage				12V (6 cells)
Nominal Capacity				
20-HR	10-HR	5-HR	3-HR	2-HR
42Ah	38Ah	35Ah	33Ah	32Ah
Approximate Net Weight				9,8 kgr (21.60 lbs)
Internal Resistance (approx.)				<9.15 milliohms
CHARGER VOLTAGE SETTINGS (@ 77°F/25°C)				
System Voltage	12	24	36	48
Max.Charging Current (A)		0.2 x C20		
Equilize Charging Voltage	14.7	29.4	44.1	58.8
Standby Charging Voltage	13.8	27.6	41.4	55.2
Terminal				M5-Φ10
Operating Temp. Range				-25°C to 55°C (-13°F to 131°F)
Recom. Operating temp.				15°C to 25°C (59°F to 77°F)
Self Discharge				
1 month				97%
3 months				90%
6 months				80%

AEG DMF series's self discharge is <3%/month at 20°C (68°F)
The Storage period may up to 6 months at 20°C (68°F) and then a freshening charge is required

Case and cover	A.B.S.
	UL94-VD (optional)

DIMENSIONS (mm)



L: 267mm [10.5 in]
H: 170mm [6.69 in]
W: 77mm [3.03 in]
TH: 170mm [6.69 in]

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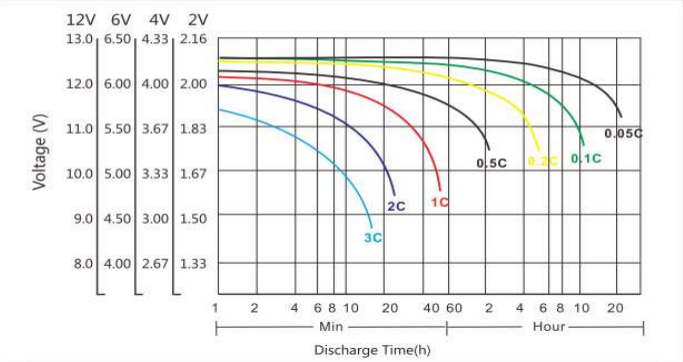
Constant Current Discharge (A)@25℃ (77℉)

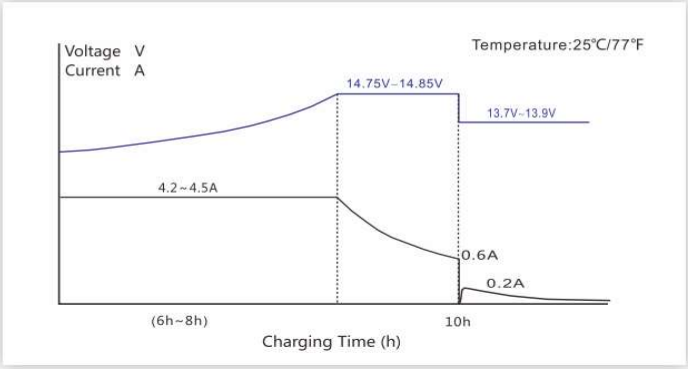
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	42.9	32.9	26.3	13.9	9.72	7.65	6.33	5.22	4.07	3.32	1.82
1.80V/cell	45.6	34.8	27.7	14.6	10.2	8.03	6.62	5.45	4.27	3.47	1.90
1.75V/cell	48.5	36.8	29.1	15.3	10.7	8.38	6.92	5.70	4.46	3.62	1.99
1.70V/cell	50.8	38.4	30.2	15.9	11.0	8.61	7.07	5.82	4.54	3.68	2.02
1.67V/cell	53.0	39.9	31.4	16.4	11.4	8.85	7.21	5.93	4.62	3.74	2.06
1.60V/cell	55.2	41.3	32.4	16.8	11.7	9.03	7.34	6.03	4.70	3.82	2.10

Electrical Characteristics

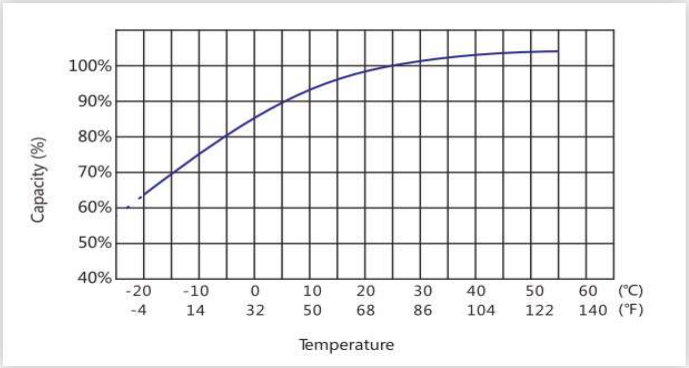
Discharge Characteristics(25℃)



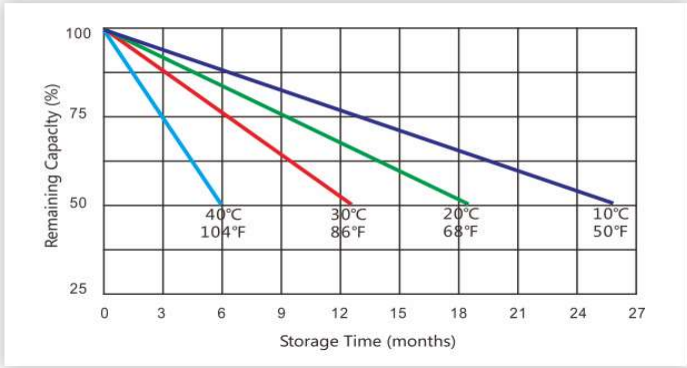
Charging Characteristics(25℃)



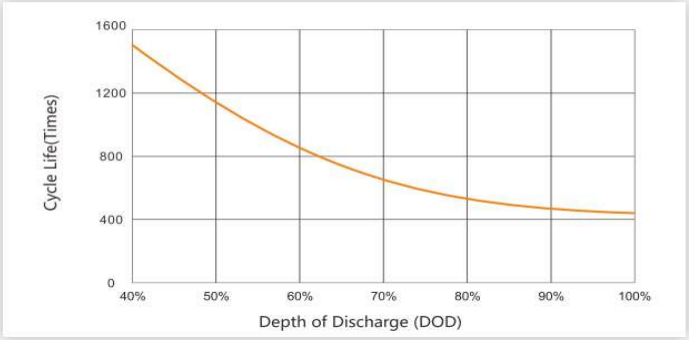
Capacity vs Temperature



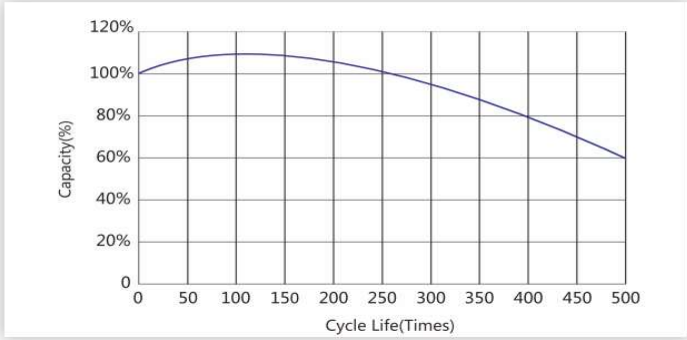
Self-discharge vs Time



Cycle Life vs Depth of Discharge



Cycle Life vs Remaining Capacity@25℃(77℉)



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