

Powered by

Liftech

6-DZF-25GEL 12V 25Ah▶

EV series is specially designed for frequent discharge deep cycle, the series battery offers reliable performance in high load situations and could provide competitive cycle performance. Suitable for Electric Vehicle and Golf cart; Industrial equipment, Floor machines, Marine, RV, and no- idle solutions.

► Specification

Nominal Voltage	12V
Nominal Capacity	25Ah
Design life	5 years
Terminal	M6
Approx. Weight	Approx 6.8kg (14.99lbs)
Container Material	ABS
Rated Capacity	25Ah : 10HourRate (2.5A to 10.5V) 22.0Ah : 2HourRate (11.0A to 10.5V) 17.0Ah : 1HourRate (17.0 A to 10.5V)
Operating Temperature	Discharge: -20~50°C (-4~122°F) Charge: -20~50°C (-4~122°F) Storage: -20~50°C (-4~122°F)
Charge Method (25°C)	Float Use: 13.7-13.9V @ 25°C Cycle Use: 14.7-14.9V @ 25°C Max charge current 4.60A
Self discharge	3% of capacity declined per month at 25°C



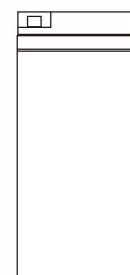
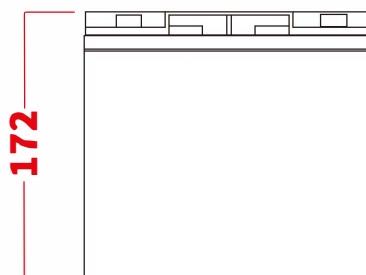
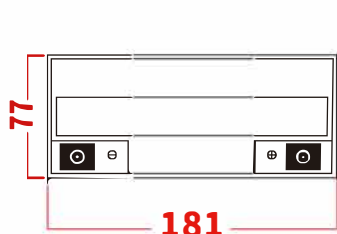
MH
MH 27774-1

CE
CTK20141211018

TLC

Dimensions :	Overall Height (H)	Container height (h)	Length (L)	Width (W)
Unit: mm	172±2	170±2	181±2	77±2

unit:mm



M5



Terminal

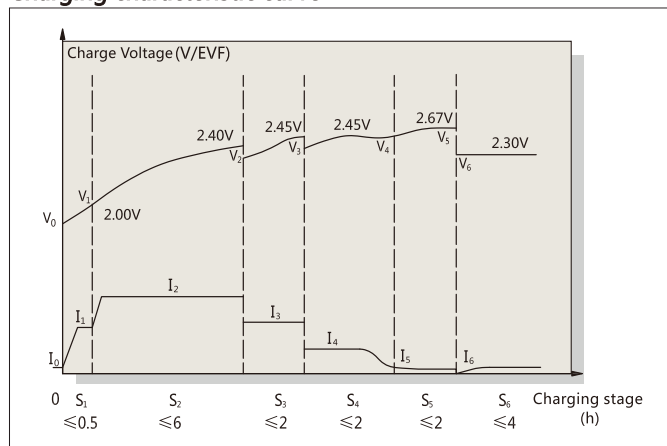
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	95.0	54.0	32.0	17.5	11.29	7.86	4.83	3.10	2.52	1.396
1.65V	92.4	52.4	31.5	17.4	11.19	7.78	4.80	3.08	2.49	1.387
1.70V	88.8	51.3	30.9	17.3	11.10	7.67	4.73	3.03	2.47	1.379
1.75V	81.4	49.6	30.5	17.0	11.00	7.60	4.70	3.02	2.45	1.370
1.80V	72.9	46.2	29.3	16.6	10.81	7.55	4.58	2.94	2.42	1.361
1.85V	65.1	41.4	26.7	15.4	10.23	7.11	4.34	2.78	2.35	1.335

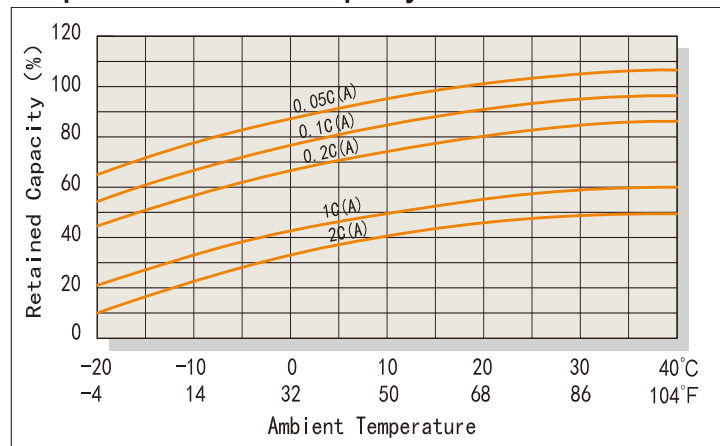
Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

F.V/Time	5Min	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	144.3	86.5	52.5	30.1	19.4	13.56	8.32	5.48	4.39	2.50
1.65V	139.0	84.8	52.1	29.8	19.4	13.38	8.29	5.42	4.37	2.49
1.70V	138.1	84.0	52.0	29.6	19.3	13.29	8.22	5.34	4.30	2.47
1.75V	128.4	83.4	51.9	29.3	19.1	13.25	8.16	5.33	4.27	2.45
1.80V	118.7	78.6	50.4	29.2	19.0	13.21	8.10	5.20	4.20	2.44
1.85V	105.6	70.5	46.2	27.1	18.3	12.58	7.71	4.95	4.14	2.43

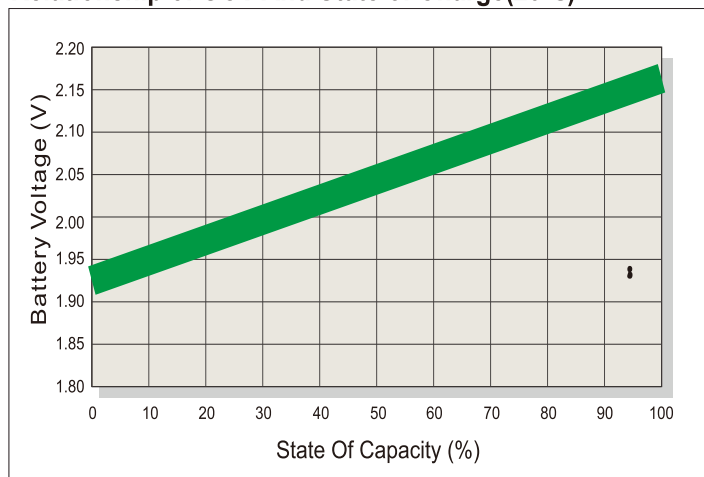
Charging characteristic curve



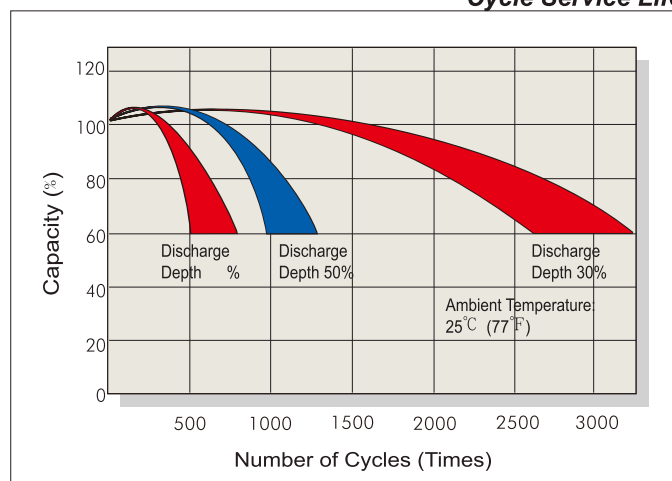
Temperature Effects on Capacity



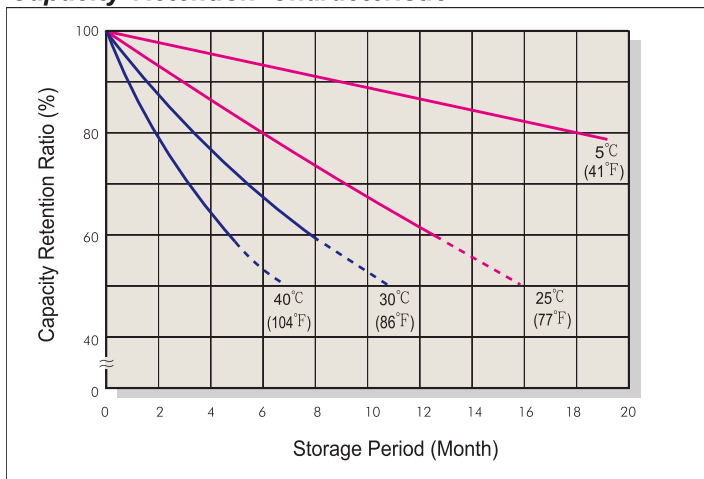
Relationship of OCV And State of Charge(20°C)



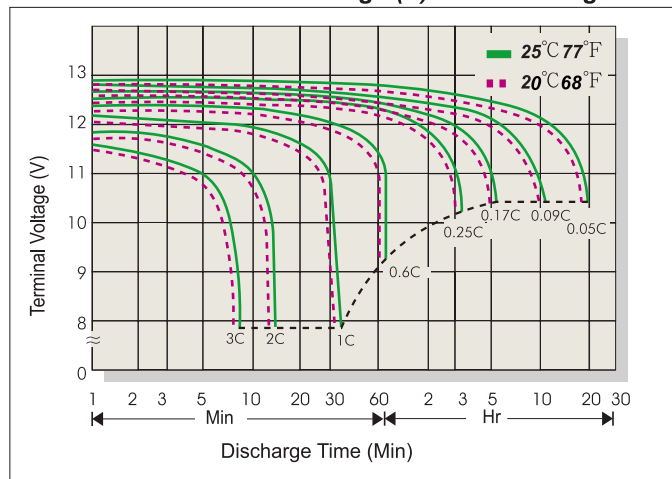
Cycle Service Life



Capacity Retention Characteristic



Terminal Voltage (V) and Discharge Time



Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C (77°F)	2.45	2.40~2.50	0.3C
Standby	25°C (77°F)	2.275	2.25~2.30	

Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.65	1.6	1.75	1.70
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

Effect of temperature on capacity (20HR)

Temperature	Dependency of Capacity (20HR)
40°C	102%
25°C	100%
0°C	85%
-15°C	65%

Self-discharge Characteristics

Storage time	Preservation rate
3 Months	91%
6 Months	82%
12 Months	64%