

Powered by

6-DZF-15GEL 12V 15Ah▶

Liftech

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	15Ah
Design life	5 years
Terminal	M5
Approx. Weight	Approx 4.5 kg (9.9 lbs)
Container Material	ABS
Rated Capacity	15.0Ah: 10 Hour Rate (1.50A to 10.5V) 12.0Ah: 2 Hour Rate (6.0A to 10.5V) 10.0Ah: 1 Hour Rate (10.0A 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 1.80A
Self discharge	3% of capacity declined per month at 25°C

MH
MH 27774-1

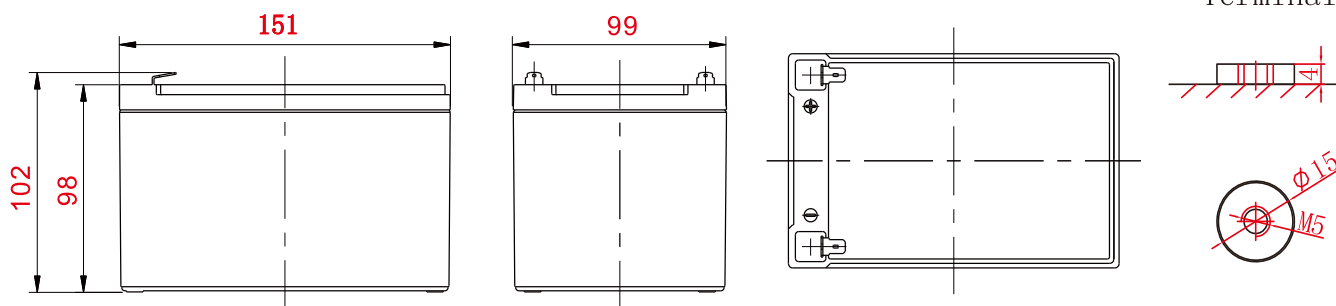
CE
CTK20141211018

TLC

► Dimensions :

Overall Height (H)	Container height (h)	Length (L)	Width (W)
Unit: mm 102±2	98±2	151±2	99±2

unit: mm



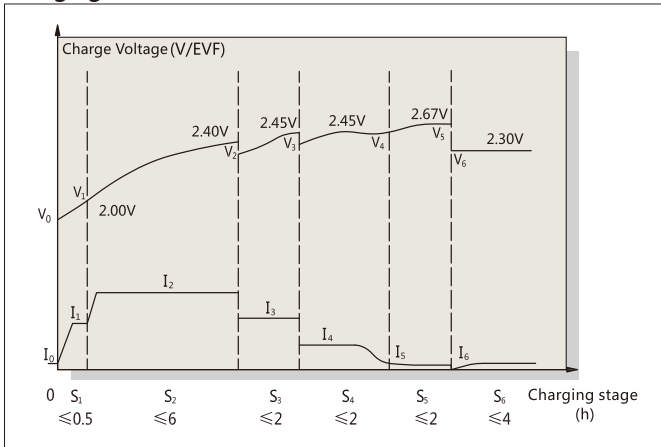
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	56.3	30.2	18.4	10.8	6.17	4.57	3.01	1.95	1.58	0.83
1.65V	54.6	29.3	18.1	10.7	6.14	4.52	2.97	1.93	1.57	0.83
1.70V	52.4	28.7	17.8	10.6	6.09	4.46	2.94	1.92	1.55	0.82
1.75V	48.2	27.8	17.6	10.5	6.00	4.41	2.91	1.90	1.54	0.82
1.80V	43.2	25.9	16.8	10.2	5.89	4.38	2.83	1.89	1.52	0.81
1.85V	38.5	23.1	15.4	9.44	5.59	4.12	2.69	1.84	1.48	0.80

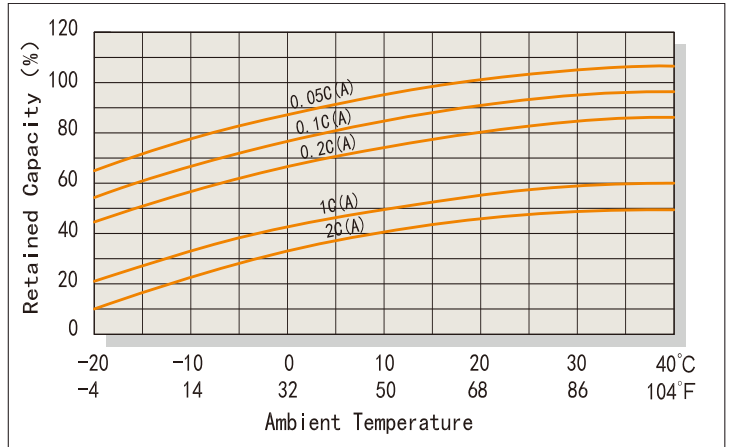
Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

FV/Time	5M	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	94.4	53.3	33.3	20.3	11.7	8.70	5.70	3.76	3.04	1.64
1.65V	90.8	52.3	33.0	20.2	11.6	8.58	5.67	3.73	3.01	1.64
1.70V	90.3	51.7	33.0	20.0	11.6	8.54	5.62	3.70	2.98	1.63
1.75V	84.2	51.4	32.8	19.9	11.5	8.49	5.59	3.67	2.95	1.62
1.80V	77.3	48.6	32.0	19.7	11.5	8.46	5.53	3.64	2.92	1.61
1.85V	69.1	43.4	29.4	18.3	11.0	8.04	5.28	3.53	2.88	1.60

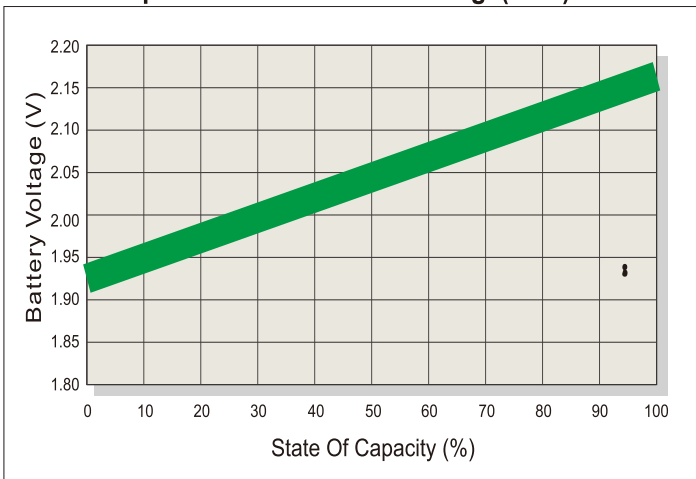
Charging characteristic curve



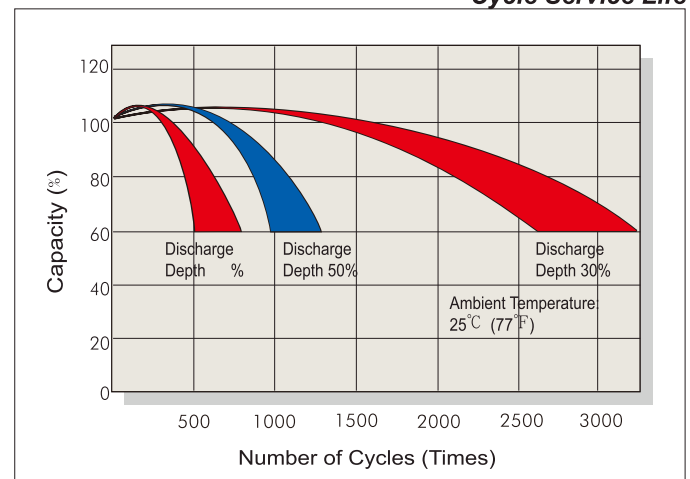
Temperature Effects on Capacity



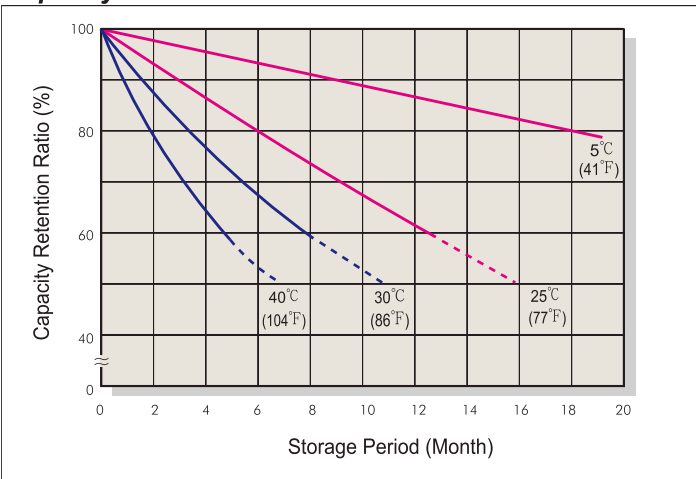
Relationship of OCV And State of Charge(20°C)



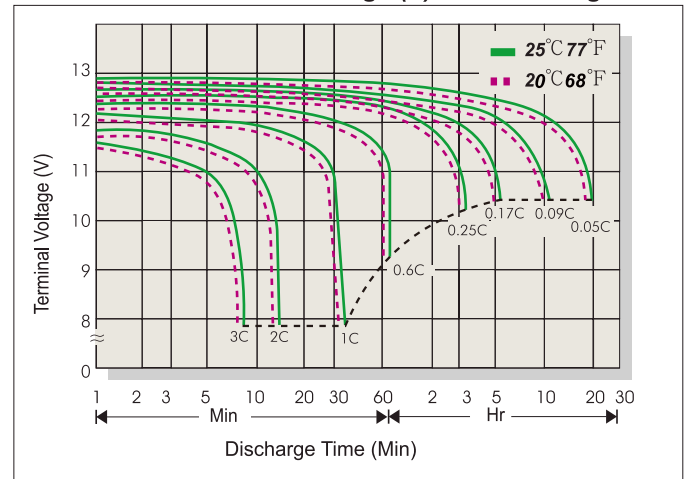
Cycle Service Life



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%