



# Drypower

3.2V

1.6Ah

LiFePO<sub>4</sub>

5.12Wh

## IFR18650 E1600

Rechargeable Lithium Iron Phosphate Battery

### SPECIFICATIONS

Nominal Voltage	3.2V
Nominal Capacity	1600mAh
Watt-hour	5.12Wh
Cycle Life (Capacity ≥80%)	≥2000 cycles
Charge Current	
Standard	320mA (0.2C)
Max	1600mA (1C)
Charge Cut-off Voltage	3.65V
Discharge Cut-off Voltage	2.0V
Maximum Discharge Current	4800mA max. cont.
Internal Resistance	≤40mΩ
Operating Temperature	
Charge	0°C ~ +60°C
Discharge	-20°C ~ +60°C
Storage (1 months)	-20°C ~ +45°C
Storage (3 months)	-20°C ~ +35°C
Storage (6 months)	-20°C ~ +25°C
Operating Humidity Range	45% – 85%
Dimensions	
Diameter (D)	18.4 ± 0.1mm
Height (H)	65.2 ± 0.3mm
Weight	40g

### DIMENSIONS

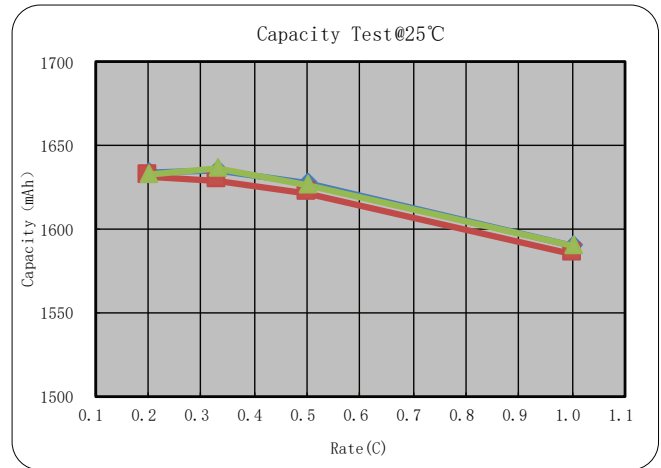


Performance may vary depending on application. All specifications are correct at time of creation. All specifications and operation conditions contained in this datasheet are subject to change or improvement without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us • Apr2021

### CAPACITY TEST

#### 1. Test Data

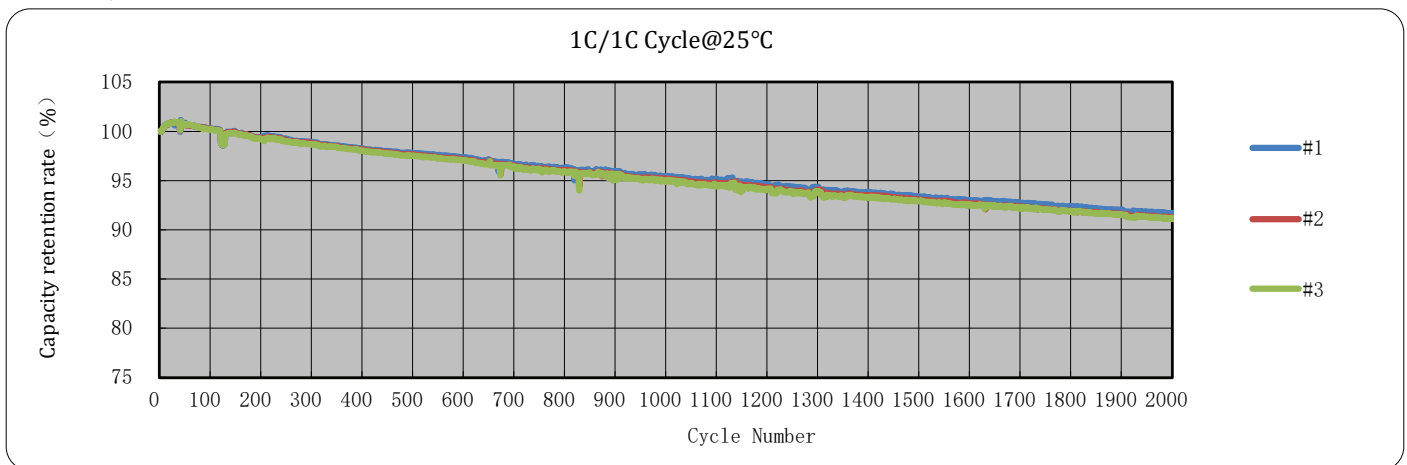
Cell (C)	0.2	0.33	0.5	1	IR (mΩ)
#1	1634	1635	1628	1590	14.64
#2	1631	1629	1622	1585	14.63
#3	1633	1636	1627	1590	14.26



#### 2. Comprehensive judgement: qualified

### ROOM TEMPERATURE CYCLE TEST

#### 1. Cycle Curve



#### 2. Test Data

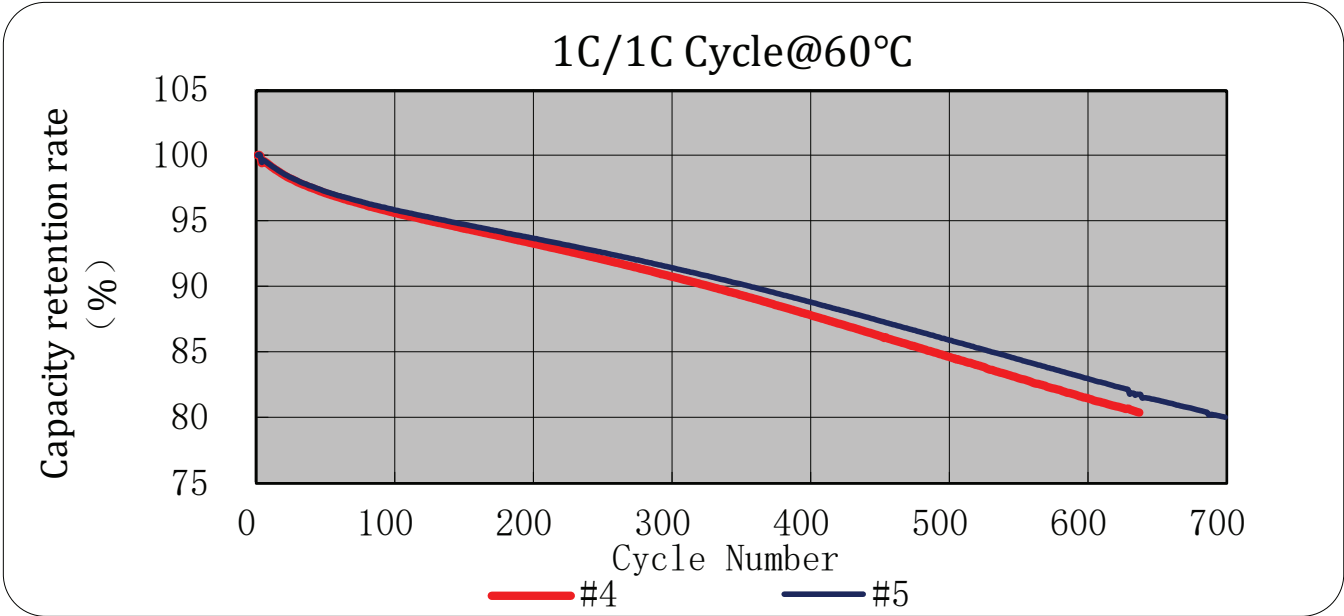
Cell No.	Initial C	Cycle times	Retention rate
#1	1602	2061	91.42%
#2	1595	2072	91.01%
#3	1599	2068	90.82%

#### 3. Comprehensive judgement: qualified

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## HIGH TEMPERATURE CYCLE TEST

### 1. Cycle Curve



### 2. Test Data

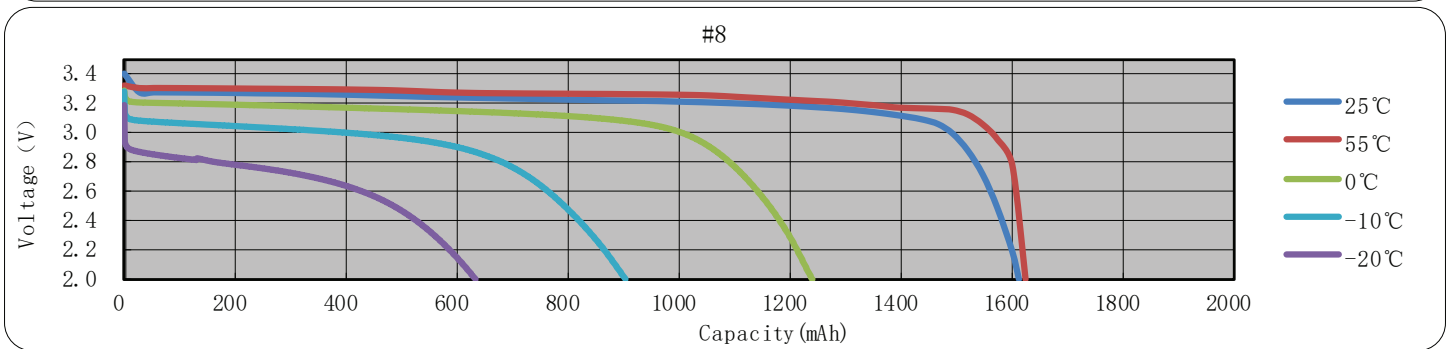
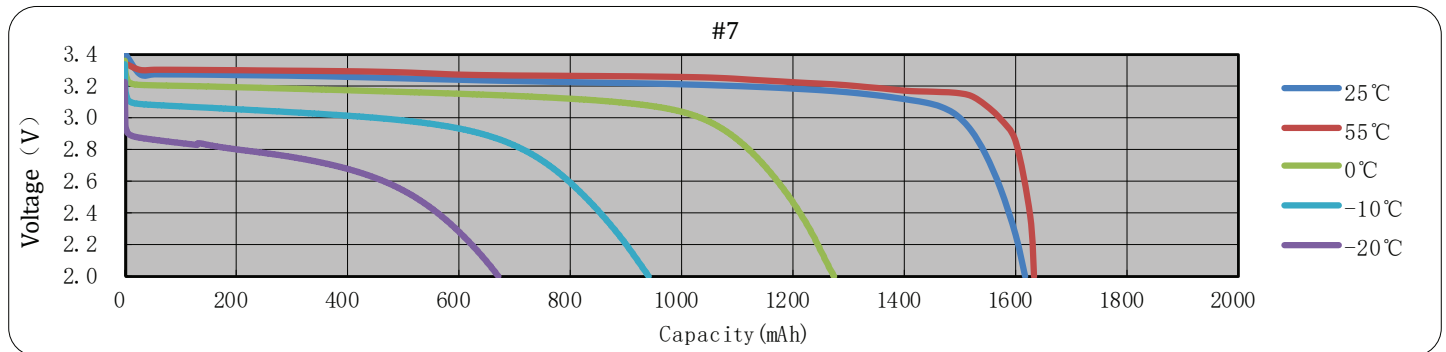
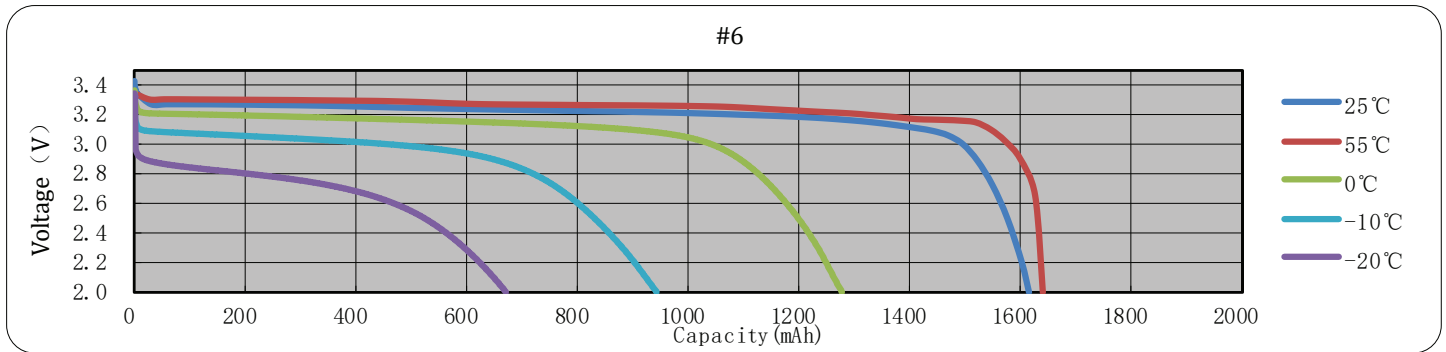
Cell No.	Initial C	Cycle times	Retention rate
#4	1647	637	80.36%
#5	1651	699	80.00%

### 3. Comprehensive judgement: qualified

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### HIGH & LOW TEMPERATURE DISCHARGE

#### 1. Discharge Curve



#### 2. Test Data

Temperature	Discharge capacity					Discharge ratio			
	25°C	55°C	0°C	-10°C	-20°C	55°C	0°C	-10°C	-20°C
#6	1616	1641	1278	943	671	101.55%	79.08%	58.35%	41.52%
#7	1617	1633	1274	941	671	100.99%	78.79%	58.19%	41.50%
#8	1612	1624	1240	903	633	100.74%	76.92%	56.02%	39.27%

#### 3. Comprehensive judgement: qualified

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