## Drypower

LITHIUM IRON PHOSPHATE LIFePO4 RANGE

RECHARGEABLE LITHIUM

3.2V

2.0Ah

LiFePO<sub>4</sub>

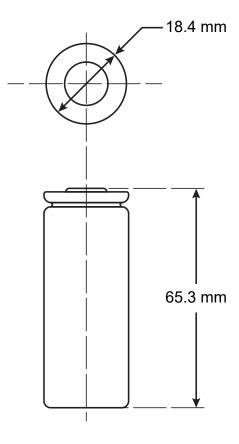
6.4Wh

## IFR18650-2000

**Rechargeable Lithium Iron Phosphate Battery** 

Nominal Voltage         3.2V           Nominal Capacity         2000mAh           Watt-hour         6.4Wh           Cycle Life (Capacity ≥80%)         ≥1500 cycles           Charge Current         1000mA (0.5C)           Max         3000A (2C)           Charge Cut-off Voltage         3.65±0.05V           Discharge Current         2.0V           Standard         1000mA (0.5C)           Max continuous         6000mA (3C)           Max pulse         10,000mA (5C)           Cycle repeat twice for 5s         Internal Resistance           Charge         0°C ~ +45°C           Discharge         -20°C ~ +60°C           Storage (<3 months)         0°C ~ +25°C           Storage (<12 months)         -20°C ~ +25°C           Dimensions         Diameter (D)         18.4mm           Height (H)         65.3mm	SPECIFICATIONS	
Watt-hour       6.4Wh         Cycle Life (Capacity ≥80%)       ≥1500 cycles         Charge Current       1000mA (0.5C)         Max       3000A (2C)         Charge Cut-off Voltage       3.65±0.05V         Discharge Current       2.0V         Standard       1000mA (0.5C)         Max continuous       6000mA (3C)         Max pulse       10,000mA (5C)         Cycle repeat twice for 5s         Internal Resistance       ≤25mΩ         Operating Temperature       0°C ~ +45°C         Charge       0°C ~ +60°C         Storage (<3 months)	Nominal Voltage	3.2V
Cycle Life (Capacity ≥80%)         ≥1500 cycles           Charge Current         1000mA (0.5C)           Max         3000A (2C)           Charge Cut-off Voltage         3.65±0.05V           Discharge Current         2.0V           Standard         1000mA (0.5C)           Max continuous         6000mA (3C)           Max pulse         10,000mA (5C)           Cycle repeat twice for 5s           Internal Resistance         ≤25mΩ           Operating Temperature         0°C ~ +45°C           Charge         0°C ~ +45°C           Discharge         -20°C ~ +60°C           Storage (<3 months)         0°C ~ +25°C           Dimensions         Diameter (D)         18.4mm           Height (H)         65.3mm	Nominal Capacity	2000mAh
Charge Current       1000mA (0.5C)         Max       3000A (2C)         Charge Cut-off Voltage       3.65±0.05V         Discharge Curt-off Voltage       2.0V         Discharge Current       1000mA (0.5C)         Max continuous       6000mA (3C)         Max pulse       10,000mA (5C)         Cycle repeat twice for 5s         Internal Resistance       ≤25mΩ         Operating Temperature       0°C ~ +45°C         Charge       0°C ~ +45°C         Discharge       -20°C ~ +60°C         Storage (<3 months)	Watt-hour	6.4Wh
Standard       1000mA (0.5C)         Max       3000A (2C)         Charge Cut-off Voltage       3.65±0.05V         Discharge Current       2.0V         Standard       1000mA (0.5C)         Max continuous       6000mA (3C)         Max pulse       10,000mA (5C)         Cycle repeat twice for 5s         Internal Resistance       ≤25mΩ         Operating Temperature       0°C ~ +45°C         Discharge       -20°C ~ +60°C         Storage (<3 months)	Cycle Life (Capacity ≥80%)	≥1500 cycles
Max $3000A$ (2C)Charge Cut-off Voltage $3.65\pm0.05V$ Discharge Current $2.0V$ Discharge Current $1000mA$ (0.5C)Max continuous $6000mA$ (3C)Max pulse $10,000mA$ (5C) Cycle repeat twice for 5sInternal Resistance $≤25mΩ$ Operating Temperature $0°C \sim +45°C$ Discharge $-20°C \sim +60°C$ Storage (<3 months) $0°C \sim +25°C$ Storage (<12 months) $-20°C \sim +25°C$ Dimensions $-20°C \sim +25°C$ Diameter (D) $18.4mm$ Height (H) $65.3mm$	Charge Current	
Charge Cut-off Voltage $3.65\pm0.05$ VDischarge Current $2.0$ VDischarge Current $1000$ mA (0.5C)Standard $1000$ mA (0.5C)Max continuous $600$ mA (3C)Max pulse $10,000$ mA (5C) Cycle repeat twice for 5sInternal Resistance $≤25$ mΩOperating Temperature $0$ °C $\sim +45$ °CDischarge $0$ °C $\sim +45$ °CStorage (<3 months) $0$ °C $\sim +25$ °CStorage (<12 months) $-20$ °C $\sim +25$ °CDimensionsDiameter (D) $18.4$ mmHeight (H) $65.3$ mm	Standard	1000mA (0.5C)
Discharge Current         2.0V           Discharge Current         1000mA (0.5C)           Max continuous         6000mA (3C)           Max pulse         10,000mA (5C)           Cycle repeat twice for 5s           Internal Resistance         ≤25mΩ           Operating Temperature         0°C ~ +45°C           Charge         0°C ~ +60°C           Storage (<3 months)	Max	3000A (2C)
Discharge Current       1000mA (0.5C)         Max continuous       6000mA (3C)         Max pulse       10,000mA (5C)         Cycle repeat twice for 5s         Internal Resistance       ≤25mΩ         Operating Temperature       0°C ~ +45°C         Discharge       -20°C ~ +60°C         Storage (<3 months)	Charge Cut-off Voltage	3.65±0.05V
Standard1000mA (0.5C)Max continuous6000mA (3C)Max pulse10,000mA (5C) Cycle repeat twice for 5sInternal Resistance≤25mΩOperating Temperature0°C ~ +45°CDischarge $-20^{\circ}$ C ~ +60°CStorage (<3 months)	Discharge Cut-off Voltage	2.0V
Max continuous $6000$ mA (3C)Max pulse $10,000$ mA (5C) Cycle repeat twice for 5sInternal Resistance≤25mΩOperating Temperature $0^{\circ}$ C ~ +45°CCharge $0^{\circ}$ C ~ +60°CDischarge $-20^{\circ}$ C ~ +60°CStorage (<3 months)	Discharge Current	
Max pulse10,000mA (5C) Cycle repeat twice for 5sInternal Resistance≤25mΩOperating Temperature0°C ~ +45°CCharge0°C ~ +60°CDischarge−20°C ~ +60°CStorage (<3 months)0°C ~ +25°CStorage (<12 months)−20°C ~ +25°CDimensionsDiameter (D)18.4mmHeight (H)65.3mm	Standard	1000mA (0.5C)
Max pulseCycle repeat twice for 5sInternal Resistance≤25mΩOperating Temperature0°C ~ +45°CCharge0°C ~ +60°CDischarge-20°C ~ +60°CStorage (<3 months)	Max continuous	6000mA (3C)
Operating Temperature         0°C ~ +45°C           Charge         0°C ~ +60°C           Discharge         -20°C ~ +60°C           Storage (<3 months)         0°C ~ +25°C           Storage (<12 months)         -20°C ~ +25°C           Dimensions         Diameter (D)         18.4mm           Height (H)         65.3mm	Max pulse	,
$ \begin{array}{cccc} \text{Charge} & 0^{\circ}\text{C} \sim +45^{\circ}\text{C} \\ \text{Discharge} & -20^{\circ}\text{C} \sim +60^{\circ}\text{C} \\ \text{Storage} \ (<3 \ \text{months}) & 0^{\circ}\text{C} \sim +25^{\circ}\text{C} \\ \text{Storage} \ (<12 \ \text{months}) & -20^{\circ}\text{C} \sim +25^{\circ}\text{C} \\ \hline \textbf{Dimensions} \\ \text{Diameter} \ (\text{D}) & 18.4 \text{mm} \\ \text{Height} \ (\text{H}) & 65.3 \text{mm} \\ \end{array} $	Internal Resistance	≤25mΩ
Discharge $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$ Storage (<3 months) $0^{\circ}\text{C} \sim +25^{\circ}\text{C}$ Storage (<12 months) $-20^{\circ}\text{C} \sim +25^{\circ}\text{C}$ Dimensions  Diameter (D) 18.4mm  Height (H) 65.3mm	Operating Temperature	
Storage (<3 months)	Charge	0°C ~ +45°C
Storage (<12 months)	Discharge	−20°C ~ +60°C
Dimensions  Diameter (D) 18.4mm  Height (H) 65.3mm	Storage (<3 months)	0°C ~ +25°C
Diameter (D) 18.4mm Height (H) 65.3mm	Storage (<12 months)	−20°C ~ +25°C
Height (H) 65.3mm	Dimensions	
	Diameter (D)	18.4mm
Mojest	Height (H)	65.3mm
vveignt \$45g	Weight	≤45g

## **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 • May2024