





BUL280000352 + PSL-FP-IFR26650PC 3 2U 2 20b -

PSL-FP-IFR26650PC 3.2V 2.3 AH POWER CELL

Rechargeable Lithium Cell PSL FP – Lithium Iron Phosphate Series

CELL FEATURES

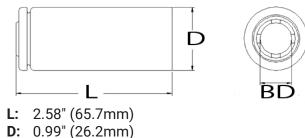
- Super safe lithium iron phosphate (LiFePO4) chemistry reducing the risk of explosion or combustion due to high impact, over-charging or short circuits
- Construct custom battery design by placing two or more cells in parallel and/or series
- Fast charging and low self-discharge rate
- Durable steel case material

APPROVALS



- UL 1642 certificate
- UN 38.3 certified
- ISO9001:2015 Quality management systems

DIMENSIONS: inch (mm)



BD: 0.59" (15mm)

GLOBAL HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

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POWER CELL

The PSL-FP-IFR26650PC is a Power cell. Power cells are designed to deliver high current loads over a short period of time, making them ideal for use in high rate and starter applications.

PERFORMANCE SPECIFICATIONS

Nominal Voltage	3.2 V
Rated Capacity	2.3 AH
Stored Energy	8.4 Wh
Cycle Life (@DOD100%)	2000 Cycles
Approximate Weight	0.19 lbs (85g)
Internal Resistance	≤15 mΩ
Max Charge Current	4.6 A /2C
Max Discharge Current	69 A/30C
Charge Cut-off Voltage	3.65 V
Recommended Discharge Cut- Off Voltage	2.5 V
Operating Temperature Range Charge Discharge Recommended	32°F (0°C) to 113°F (45°C) -4°F (-20°C) to 140°F (60°C) 59°F (15°C) to 95°F (35°C)
Temperature Limit	Cell skin temperature cannot exceed 80°C
Standard Charging Method	1C constant current charge to 3.65V, then constant voltage charge until the charge current declines to 0.05C
Life Expectancy (years)	5 years at one cycle per day
Dimensional Tolerances Height Width	+/- 0.012 in. (+/- 0.3mm) +/- 0.01 in. (+/- 0.2mm)
Terminal Type	Button

STORAGE SPECIFICATIONS

	1 Month	3 Months	6 Months
Retention*	90%	85%	80%
Recovery*	95%	90%	85%

*Cell stored at 77°F (25°C) with 50% SOC used to determine retention and recovery.

Long-term storage temperature should be $14^{\circ}F$ (- $10^{\circ}C$) to $95^{\circ}F$ ($35^{\circ}C$) with 45-85%RH. It is recommended to store cells at 25°C and between 3.3 and 3.4V for long term storage.



PSL-FP-IFR26650PC 3.65V 2.3 AH POWER CELL

Rechargeable Lithium Cell

PSL FP – Lithium Iron Phosphate Series

CAPACITY SPECIFICATIONS

ltem	Test Method and Condition	Result		
Rated Capacity 1C	Capacity measured with discharge current of 1C with 2V cut-off voltage after the standard charge.	2300mAh		
Rated Capacity 10C	Capacity measured with discharge current of 10C with 2V cut-off voltage after the standard charge.	2250mAh		
Rated Capacity 20C	Capacity measured with discharge current of 20C with 2V cut-off voltage after the standard charge	2200mAh		
Rated Capacity 30C	Capacity measured with discharge current of 30C with 1.5V cut-off voltage after the standard charge	2100mAh		
Cycle Life	Temperature: 23+/-5°C Charge: 1C Constant Current to 3.65V, then Constant Voltage to 0.05C cut off Discharge: 1C discharge to 2V 80% or more of first cycle capacity at 1C discharge	2000 times		
Initial Impedance	Internal resistance measured at AC 1KHz at 50% charge	≤15 mΩ		
Standard environmental test condition: Unless otherwise specified, all tests stated in this Product Specification are conducted at:				

Temperature: 23+/-5°C Humidity: 65+/-20% RH

CHARGING SPECIFICATIONS

Charging Current:

Charging current should be less than the maximum charge current specified within this product specification. Charging with higher current than recommended may cause damage to the cell's electrical, mechanical, and safety performance, and could lead to heat generation or leakage of electrolyte.

Charging Voltage:

Charging voltage should be less than the maximum charge voltage specified within this product specification. Charging beyond 3.7V, which is the absolute maximum voltage, is strictly prohibited. The charger shall be designed to comply with this condition. Charging with higher voltage than maximum may cause damage to the cell's electrical, mechanical, and safety performance, and could lead to heat generation or leakage of electrolyte.

Charging Temperature:

The cell should be charged within 32°F (0°C) to 113°F (45°C).

Reverse Charging:

Reverse charging is prohibited. The cell is required to be connected correctly. The polarity has to be confirmed prior to wiring. If the cell is not connected properly, the cell cannot be charged. Reverse polarity charging may cause degradation of the cell's performance, overall damage to the cell, which could lead to heat generation or leakage of electrolyte