

A close-up photograph of a black, cylindrical pole. A battery cylinder is integrated into the pole's structure. The battery is visible as a recessed section with a clear, protective cover. The pole has a smooth, matte finish.

Lithium Battery Cylinder

Built into Pole - Outside of Pole



FANTASY LIGHTS GROUP®

Lithium Battery Cylinder

Built into Poles | Outside of Poles

Welcome to our latest innovation—the lithium battery system built into light poles. This unique design is specifically crafted for solar street lights, aiming to provide exceptional performance and reliability to meet modern urban lighting demands.

Our built-in lithium battery system is a customized battery solution for solar street lights, suitable for various outdoor lighting projects. Whether for city streets, parks, community roads, or remote area lighting, this battery system offers stable power support, ensuring street lights operate around the clock.

Our built-in lithium battery system is not only an efficient power solution but also an innovative design that combines safety, space utilization, aesthetics, and performance. By choosing our product, you will enjoy the most advanced solar lighting technology, enhancing project quality and increasing customer satisfaction.

For more product details or customized solutions, please contact our professional team. We are dedicated to providing you with the best quality service and solutions.





LiFePO₄ Lithium Battery Cylinder

Battery Spec	E1218	E1236	E1254	E1272
Battery cell type	6000mA 3.2V 32700	•	•	•
Nominal Capacity	12.8V 18AH	12.8V 36AH	12.8V 54AH	12.8V 72AH
Quantity per pack	12 pieces	24 pieces	36 pieces	48 pieces
Array Mode	4P4S	6P4S	8P4S	12P4S
Dimension (L*W*H)	180*125*108mm	320*125*108mm	450*125*108mm	600*125*108mm
Charge mode	C.C + C.V	•	•	•
Charge Cut-off voltage	14.6±0.05V	•	•	•
Discharge Cut-off Voltage	11±0.05V	•	•	•
Storage Temperature	5°C~35°C	•	•	•
Operating Temperature	-20°C~65°C	•	•	•
Lifetime (D.O.D. 50%)	4,000 cycles D.O.D 50%	•	•	•
Warranty	3 Years	•	•	•



LiFePO4 Battery Cylinder

Battery Spec	K2424	K2436	K2448	K2460
Battery cell type	6000mA 3.2V 32700	•	•	•
Nominal Capacity	25.6V 24AH	25.6V 36AH	25.6V 48AH	25.6V 60AH
Quantity per pack	12 pieces	24 pieces	36 pieces	48 pieces
Array Mode	4P8S	6P8S	8P8S	10P8S
Dimension (L*Dia)	L340*D150mm	L480*D150mm	L620*D150mm	L760*D150mm

Battery Spec	K2475	K2490	K24105
Battery cell type	15000mA 3.2V 32140	•	•
Nominal Capacity	25.6V 75AH	25.6V 90AH	25.6V 105AH
Quantity per pack	40 pieces	48 pieces	56 pieces
Array Mode	5P8S	6P8S	7P8S
Dimension (L*Dia)	L770*D150mm	900*D150mm	1040*D150mm

Charge mode	C.C + C.V
Charge Cut-off voltage	29.2±0.05V
Discharge Cut-off Voltage	22±0.05V
Storage Temperature	5°C ~ 35°C
Operating Temperature	-20°C ~ 65°C
Lifetime (D.OD. 50%)	4,000 cycles D.O.D 50%
Warranty	3 Years

Product Advantages



Enhanced Safety:

The design, integrated into the light pole, effectively protects the battery from external environmental impacts such as extreme weather, theft, and vandalism. This ensures the battery's safety and longevity.



Simplified Installation and Maintenance:

The integrated battery design makes the system more unified, simplifying and speeding up the installation and maintenance processes, thus reducing labor and time costs.



Space Saving:

Utilizing the internal space of the light pole for battery installation avoids the issue of traditional external battery boxes occupying ground space, keeping the installation area clean and neat.



Aesthetic Uniformity:

Integrating the battery inside the light pole results in a cleaner, more stylish appearance for the entire solar street light system, aligning with the aesthetic standards of modern cities and high-end communities.



Efficient Heat Dissipation:

The environment inside the light pole typically offers excellent heat dissipation conditions, helping maintain the battery at an optimal working temperature, thereby extending battery life and enhancing system performance.



High-Performance Energy Storage:

Utilizing high-quality lithium batteries provides higher energy density and longer lifespan, ensuring street lights can operate normally even on cloudy days and at night.