# Technical Specifications for Kight's KV2, KV5, and KV6 Units

To ensure clarity, here are the key specs for the units, extracted from the product data sheets:



# KV2-US- (Permanent Street Light)



### **Energy**

300W peak solar (6 x 50W panels) + 300W peak wind (KLE-300 turbine).



### **Battery**

80Ah/12V/1104Wh, 27+ year lifespan, operates -40°C to 60°C.



### Lighting

12W LED, 189 lumens/watt, 4400-5000 lumens, 4000-6000K.



### Column

15ft'-23ft' height, galvanized, powder-coated.



### Connectivity

Remote monitoring, client dashboard for adjustments.





## **KV5 (Pathway Lighting)**

### **Energy**

300W peak solar (6 x 50W panels) + 300W peak wind (KLE-300 turbine).

### **Battery**

80Ah/12V/1104Wh, 27+ year lifespan, operates -40°C to 60°C

### Lighting

LED DC lantern for signage, bollards, pathways.

### Column

5m-6m height, British Standard galvanized.

### **Connectivity**

Remote monitoring, client dashboard for adjustments.

# KV6-US (Portable Site Light)



### Energy

300W peak solar (6 x 50W panels) + 300W peak wind (optional).

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### **Battery**

80Ah/12V/1104Wh, 27+ year lifespan, operates -40°C to 60°C



### Lighting

12W LED, 189 lumens/watt, 4400-5000 lumens, 4000-6000K.



### **Portability**

15'-18' height, detachable column, 800kg base with fork slots.



### Connectivity

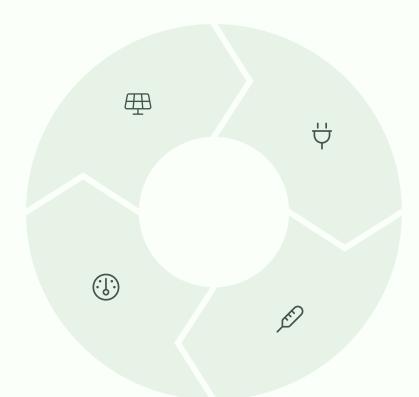
GPS monitoring, client dashboard for real-time data.



### **Product & Technology Highlights**

### **Dual Energy**

Dual solar (150W - 300W) and wind (300W) energy inputs for reliable power.



#### Off-Grid

100% off-grid, no backup needed, with 16+ hours of light in extreme weather.

### **Smart Monitoring**

Remote monitoring via GPS asset monitoring, adjustable lighting levels.

### **Temperature Resilience**

-40°C to 60°C with no efficiency loss.

27+ year lifespan, zero emissions, zero running costs.

Materials: Solar panels (25-year lifespan, <1% degradation/year), KLE-300 turbine, non-graphite battery (10,000 cycles, ultra-safe, no thermal runaway, -40°C to 60°C operation, 10x faster charging).