

# 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.

## Smart Monitoring

Remote monitoring via GPS asset monitoring, adjustable lighting levels.



## Off-Grid

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

## 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).