E-AblePower Technology

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SOLARWRAP / ENERGY STORAGE

LiFePO4 battery cylinders
E & K series

Pole-mounted packs for solar street lighting · 36–90 Ah · 12.8 V and 25.6 V · 4,000 cycles · aluminium casing, IP67

The pack goes inside the pole: no ground box, no cabinet at the base, nothing to steal from outside. Two families cover the range — the E series is a rectangular pack for wider poles, the K series is a round cylinder that slides down a slim pole.

WHY THE PACK LIVES IN THE POLE

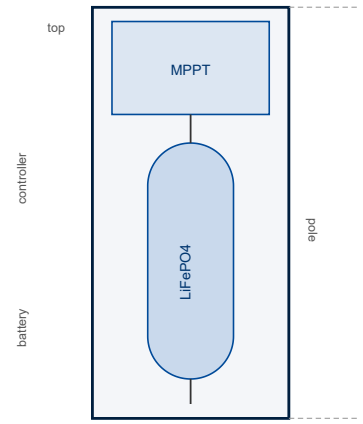
PROTECTION
Weather and theft
The pole shields the pack from sun, frost and vandalism; nothing is exposed below the flange.

SPACE
No ground footprint
No external battery box occupying pavement, no cabinet to survey or maintain.

THERMAL
Heat path
The aluminium tube and the steel pole conduct heat away, keeping the pack nearer its working window.

INSTALL
One lift
Cylinder, controller and modules are assembled on the ground and lifted together.

HOW IT SITS IN THE POLE



Controller above, pack below, both on the pole axis

Order in the pole	From the top: modules, controller, then the pack at the bottom
Clearance	200 mm free above the pack so the controller does not heat it
Access	Hand hole at pack height, sized to slide the cylinder out
Cable	Pack to controller as short as the layout allows; fuse at the pack terminal
Pole bore	K series Ø150 mm needs a bore of at least 160 mm; E series is 125 mm wide

SIZING THE PACK

Head	Daily load Wh	2 nights +10% Wh	Ah @ 12.8 V	Ah @ 25.6 V	Smallest pack
30 W	330	726	57	28	**K1260**
50 W	550	1210	95	47	**E2560**
60 W	660	1452	113	57	**E2560**
80 W	880	1936	151	76	**K2490**
100 W	1100	2420	189	95	**K2490 × 2**
120 W	1320	2904	227	113	**K2490 × 2**

Assumes 11 operating hours per night. Nothing above 90 Ah is offered at 12.8 V, so heavier loads move to the 25.6 V models.

E SERIES — RECTANGULAR PACK

Model	Nominal	Cell	Cells	Array	Dimension L×W×H (mm)	Net weight (kg)
E1236	12.8 V / 36 Ah	6,000 mA · 3.2 V · 32700	24	6P4S	320 × 125 × 108	4.10
E1260	12.8 V / 60 Ah	6,000 mA · 3.2 V · 32700	40	10P4S	510 × 125 × 108	5.30
E1290	12.8 V / 90 Ah	6,000 mA · 3.2 V · 32700	52	13P4S	710 × 125 × 108	8.20
E2560	25.6 V / 60 Ah	6,000 mA · 3.2 V · 32700	80	10P8S	920 × 125 × 108	12.50

K SERIES & SHARED DATA

Cylinder packs and electrical limits

Model	Nominal	Cell	Cells	Array	Dimension L×Ø (mm)	Net weight (kg)
K1260	12.8 V / 60 Ah	15,000 mA · 3.2 V · 32140	16	4P4S	L340 × Ø150	5.50
K1290	12.8 V / 90 Ah	15,000 mA · 3.2 V · 32140	24	6P4S	L620 × Ø150	7.80
K2460	25.6 V / 60 Ah	15,000 mA · 3.2 V · 32140	32	4P8S	L620 × Ø150	10.30
K2490	25.6 V / 90 Ah	15,000 mA · 3.2 V · 32140	40	5P8S	L1200 × Ø150	15.50

COMMON TO BOTH SERIES

Charge mode	C.C + C.V
Charge cut-off, 12.8 V	14.6 ± 0.05 V
Discharge cut-off, 12.8 V	11 ± 0.05 V
Charge cut-off, 25.6 V	29.2 ± 0.05 V
Discharge cut-off, 25.6 V	22 ± 0.05 V

Storage temperature	5 °C – +35 °C
Operating temperature	−15 °C – +45 °C
Cycle life	4,000 cycles to 60% DoD
Casing	Aluminium alloy, IP67
Warranty	3 years

CHOOSING BETWEEN E AND K

Case	Choice	Reason
Pole Ø 120–200 mm, 12 V system	K1260 / K1290	Cylinder fits the pole bore; 60–90 Ah covers a 40–60 W head
Pole Ø 160–220 mm, 24 V system	K2460 / K2490	Same bore, doubled voltage, 60–90 Ah at 25.6 V
Wide pole or buried vault	E series	Rectangular pack uses the flat space better than a cylinder
Long autonomy, 3+ nights	Two packs in parallel	Same voltage, double capacity; keep the cable length equal

Before you order. The factory sheet prints 29.2 V / 22 V cut-offs in the K-series column and 14.6 V / 11 V in the E-series column. Those are the 25.6 V and 12.8 V windows respectively, not a K-versus-E difference. Confirm the window against your controller setting before commissioning.

MOUNTING AND SAFETY

Fuse at the pack. Protect the pack-to-controller cable at the terminal, not at the controller end.

Low temperature. Below 0 °C charge only with a low-temperature cut-off; discharge is allowed to −15 °C.

Handling. K2490 weighs 15.5 kg: two people or a sling, never a single lift up a ladder.

Orientation. Terminals up where the layout allows, so a leak in the gland cannot run into the pack.

Ventilation. The pole is a closed tube: leave the hand hole clear and never seal both ends.

Transport. Shipped as Class 9 dangerous goods; UN38.3 summary and MSDS are issued per model on request.

WHAT WE ISSUE PER SHIPMENT

Document	When	Note
Packing list	With the order confirmation	Per carton, with weight and dimensions
UN38.3 test summary	Before booking the shipment	Required by the forwarder for Class 9
MSDS	Before booking the shipment	Current issue for the exact cell
Cycle-life statement	On request	4,000 cycles to 60% DoD, test conditions stated

Notes. Do not charge below 0 °C without a low-temperature cut-off; the operating range above is the discharge envelope. Capacity is nameplate at 25 °C. Packing data, UN38.3 and MSDS for a specific model are issued on request per shipment.