



PRODUCT PRESENTATION

Solar LED Displays & Lighting

Put bright, always-on signage exactly where your customers are —
with no grid, no trenching and no power bill.

32 h+

RUNTIME WITH NO SUN

5–10 yr

LIFEPO4 BATTERY LIFE

up to 190 lm/W

STREET LIGHT EFFICACY

\$0

TRENCHING & ELECTRICITY

WHY IT PAYS FOR ITSELF

Reach customers where the power lines do not.

01 Reach customers off-grid

Signs, street lights and displays that run where trenching a power line would cost \$5K–20K — roadsides, lots and remote sites.

02 No wiring, no bills

LiFePO4 storage stays lit through sunless days: no grid connection, no meter and no monthly power cost.

03 Always on, always seen

Radar speed and school-zone signage that works every night, with fleet management from your phone.

04 Cheaper to deploy

No civil works — and available solar incentives — mean it often lands well under a wired install.



WHY IT WINS

Why these systems are still running in year five

01 Winter-first sizing

Autonomy, load and recovery calculated against worst-month sun and written into the proposal, not assumed from summer performance.

03 Installed in an afternoon

All-in-one units bolt straight onto existing poles. No trenching, no cable runs, no utility connection paperwork.

02 Real LiFePO4

2,000+ cycle packs that last 5–10 years, against roughly two years for the lead-acid hiding inside budget imports.

04 Fleet management

4G and GPS on traffic products: brightness, schedules, battery health and location monitored from one dashboard.

THE NUMBERS

Specifications that decide the deal

Solar LED — reference design specifications

	Display sign (per 440 × 1000 mm panel)	All-in-one street light
Load / power class	150 W max, 50–80 W average	60–300 W
Solar array	2 × 100 W monocrystalline	Mono >23% efficiency, adjustable tilt
Battery	12.8 V 100 Ah (1,280 Wh) LiFePO4	LiFePO4, 2,000+ cycles (5–10 yrs)
Autonomy	32 h+ with no sun, 8–12 h recharge	12 h per night, 3–5 rainy days
Output	5,500–6,000 nits · 3,840 Hz	170–190+ lm/W (tier-1 LED chips)
Sensors / control	Auto-changeover to utility, 4G scheduling	10 m microwave motion, auto-dim
Environment	IP65 · –25 to +65 °C	IP66 · IK09 · 10 kV surge
Mounting	Pole or wall, anti-theft battery box	6–9 m pole, wall or arm
Warranty	3 years + 5% spares	3–5 years

WHERE IT WORKS

Anywhere the sun reaches and the grid does not



Highway & rural advertising

Municipal street lighting

Park & campus paths

School zones

Work zones

HOA & developer monuments

Construction sites

Farms & ranches

Billboard retrofits

Car park lighting

quoted per site

INDICATIVE



Let's light up your next site.

Tell us the site and what it needs to run. An engineer returns a written spec — panel, battery, autonomy and a budget range — within one business day. No obligation.

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