E-AblePower Technology

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Options that decide a tender
AC backup and IoT control

Two factory options for the same pole · neither changes the module · both are quoted per project

OPTION 1 — HYBRID AC BACKUP, 85–240 V

The controller watches the pack. When the state of charge falls below the set threshold and there is no solar input, it switches the luminaire to mains; when the pack recovers, it switches back. The pole keeps lighting through a bad winter without being oversized for it.

Input	85–240 VAC, 50/60 Hz
Switch-over	Automatic, on state of charge
Priority	Solar first, mains only as backup
Where it pays	Corridors with a weak winter, or a grid already at the pole

What it solves	Winter shortfall, multi-day cloud, a load that grows after commissioning
What it costs	A smaller array and pack than a pure off-grid design
What it needs	A mains supply at the pole and a compliant connection to it
What it does not	It is not a UPS: the transfer is not instantaneous and the LED may blink once

OPTION 2 — IOT / LORA MONITORING

Function	What the operator sees
Single-light control	Switching, dimming level and profile per pole, from the platform
Energy analysis	Generation, consumption and state of charge per pole and per circuit
Fault management	Alarm on a dark lamp, a dead pack or a module that stopped producing
Network	LoRa gateway for a group of poles, or a direct link where a gateway is not wanted

WHICH OPTION FOR WHICH PROJECT

Situation	AC backup	IoT	Why
Grid at every pole, weak winter sun	**Yes**	Optional	Trims the array and pack instead of oversizing for December
No grid, remote corridor	No	**Yes**	Nobody can inspect the poles; alarms replace site visits
Municipal tender, maintenance contract	Optional	**Yes**	The O&M price depends on remote fault reporting
Both: grid plus a service contract	**Yes**	**Yes**	They are independent boards and can be fitted on the same controller

HOW THE OPTIONS ARE QUOTED

Fitting	Factory-fitted, inside the pole, before shipment
Line item	Separate from the module price, per set
Not included	Mains connection, gateway hardware, platform hosting

Neither option fixes	A shaded pole, an undersized array or a pack at end of life
	A missing CE / EMC file for the module — that is a factory document, not an option

Notes. Both options are factory-fitted. Retrofitting either one on an installed pole means opening the pole and re-commissioning, so decide before the order. Platform hosting and the SIM or gateway hardware are quoted separately; we do not include a monthly fee in the equipment price.