

Introducing a Rapidly Deployable Data Center Security Solution

An Environmentally Friendly Infrastructure Platform For Fenceline Protection

SUGARLAND, TX, UNITED STATES, July 16, 2026 /EINPresswire.com/ -- Data centers have become one of the most widely talked about industries. Hyperscale data centers are critical infrastructure at the heart of the AI revolution, and they utilize a massive amount of power. Typically, hyperscale data centers are in locations where land and gigawatts of power are located. What most people miss, though, is that a massive amount of power is devoted to running the servers and GPUs that power the AI models, not to building functionality. The buildings are being designed to run on the least amount of power possible, conserving the power so that more server processing can be attained.

Introducing the Illuminar PowerStack modular pole. Illuminar Inc.

(www.illuminarinc.com), a leader in infrared and white light illuminator manufacturing, in partnership with PowerStack, has released a U.S.-manufactured modular vertical solar pole to provide an entirely off-grid vertically integrated energy platform built specifically for the demands of modern physical security. The Illuminar PowerStack is a vandal-resistant pole and is rated to withstand temperature extremes and up to Category 5 hurricane winds, and comes with a factory 10-year warranty.

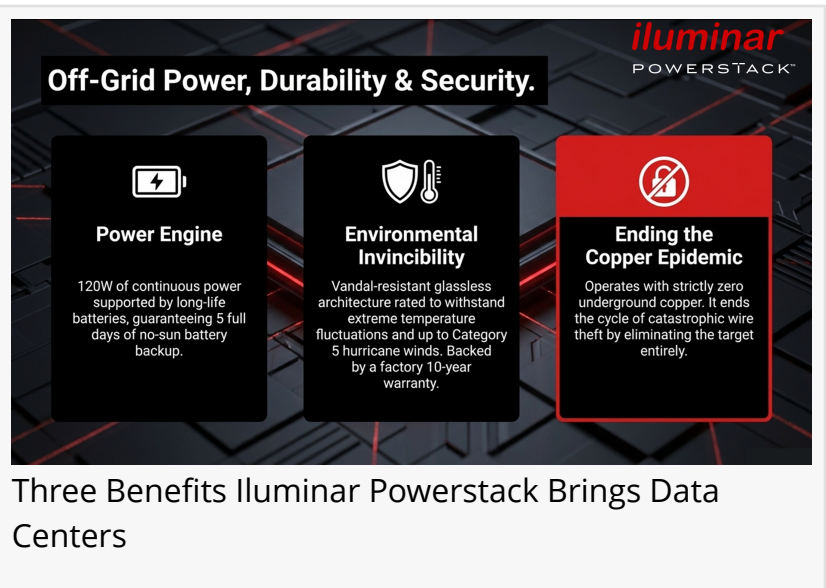


Options to mix & match technologies on an Illuminar Powerstack pole



The Water-Energy Nexus: Decoupling Security from the Grid

The Illuminar PowerStack modular pole is more than just a solar pole. It is an entirely off-grid vertically integrated energy platform. What does that mean? As a vertically integrated energy platform, the pole allows for the ability to mix and match technologies for up to [120W continuous power](#) with five (5) days of no-sun battery backup using long-life batteries. Since it is off-grid, the Illuminar PowerStack is designed to be installed quickly with zero concrete or conduit work. Unlike other solar poles, the innovative square design of the Illuminar PowerStack allows for maximum solar collection with zero loss, and without a southward direction facing requirement.



Off-Grid Power, Durability & Security.

Power Engine
120W of continuous power supported by long-life batteries, guaranteeing 5 full days of no-sun battery backup.

Environmental Invincibility
Vandal-resistant glassless architecture rated to withstand extreme temperature fluctuations and up to Category 5 hurricane winds. Backed by a factory 10-year warranty.

Ending the Copper Epidemic
Operates with strictly zero underground copper. It ends the cycle of catastrophic wire theft by eliminating the target entirely.

Three Benefits Illuminar Powerstack Brings Data Centers

Solving Data Center Problems

Illuminar is solving Data Center problems. Because of the massive amounts of power required, most data centers are now looking at ways to meet both internal and government regulations on [environmental, social, and governance \(ESG\) goals](#) to reduce environmental impact while supporting local communities. The Illuminar PowerStack qualifies for solar credits, reducing environmental impact with each installation.

Hyperscale data center campuses are typically not small. They may encompass multiple buildings. The perimeter fenceline may be literally miles long. Fenceline detection systems are the most sought-after perimeter intrusion detection system (PIDS), but many times they need infrastructure every 600' (328' each direction) for network communication. This typically involves running conduit, fiber, powered fiber, or additional conduit for 120VAC power. The Illuminar PowerStack removes this physical and labor cost. The Illuminar PowerStack pole provides infrastructure and continuous power for PIDS with minimal labor by offering a concrete-free installation and can be [installed in under an hour](#). No heavy machinery needed, thanks to a proprietary hinge plate and a winch (included) powered by a battery-operated drill (not included).

Every data center is different, with different technologies and different requirements. The Illuminar PowerStack changes the narrative. The Illuminar PowerStack is a completely technology-agnostic option. It can support Illuminar PoE lighting, technology partner technologies, and more.

Technology Options (mix and match solutions not to exceed 120W):

- PoE Street Lighting
- PoE Infrared Lighting

- CCTV
- Flashing LED lights
- Environmental Sensors
- SIP-Enabled Intercom/
- Blue Light Emergency Phone
- Hardened Networking
- WiFi
- 4G/5G/StarLink connectivity
- PtP/PtMP Wireless Connectivity
- USB-C Charging
- PoE Outdoor Gunshot Detection
- Drone Nests

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