

Problem

NEC rapid shutdown (RSD) add 4–5 hours + \$1,600–\$2,000 per install

Manual panel mapping is labor-intensive and error-prone

Inefficient fault detection without real-time telemetry

Extended service times increase operational costs

Optivolt Hub solves

Bluetooth Mesh networking

Each Optivolt module integrates Bluetooth 5.x for robust communication

Forms a self-healing mesh network immune to electrical noise

Automated panel mapping

Eliminates manual mapping, reducing installation time by up to 2 hours

Provides 100% accurate module placement data

Real-time telemetry

Module-level performance and temperature data updated every 15 minutes

Facilitates proactive maintenance and rapid troubleshooting

Installation efficiency

Reduces labor costs and minimizes on-roof time

Simplifies compliance with NEC RSD requirements

Enhanced reliability

Wireless connectivity removes additional wiring needs

Mesh network ensures communication reliability over 300 feet

