LightGrid Internal Node
Outdoor Wireless Control System 2.0

Description
LightGrid™ Outdoor Wireless Control System from GE allows remote monitoring and control and utility-grade energy measurement of streetlights.

Product Features
- DALI Interface for Asset Management and Dimming
- Inrush Current Limiting Circuit
- Utility Grade Measurement up to 0.5% Accuracy
- Self-Forming & Self-Restoring Mesh Network
- Static IPV6 Data Addressing and Routing
- Industry Standard Secure Encrypted Communications
- Nodes, Gateway spacing up to 1000ft apart depending on installation, fixture and antenna integration
- Energy Consumption Reporting as Frequent as 15 Minutes
- Node Programmable for Autonomous Time Based Schedules
- Flexible Output Level Control through Control Software
- Real Time Measurement and Storage of Voltage, Current, Wattage, Power Factor, and Hours of Operation

Applications
- Street Lighting
- Area Lighting
Product Specifications

- Input Voltage: 120-277V
- Radio Frequency: 915 MHz ISM Band, FCC CFR 47 15.247 Intentional Radiators, ICES-005
- Network Communication: IEEE 802.15.4, 6LoWPAN, 50 Channel FHSS
- Addressing: IPv6 Protocol
- Dimming: Automatically Detected 0-10V/DALI (GE Patent)
- Operating Temperature: -40 to +70°C. Integrator to Verify Actual Internal Maximum Fixture Temperature
- Surge: ANSI C136.2 2015, 6KV/3KA Combination Wave
- Power Consumption: 2W 120-277V
- Digital In/Out and Analog Inputs
- Configurable Flexible Serial In/Out Digital Communication
- Supports up to 1000W Load at >208V, 840W at 120V
- Inrush Current Limiting at Turn On
- Security: AES Encryption and Certificate Based Authentication
- Utility Grade Energy Measurement: Complies with Relevant Sections of ANSI C12.20
- EMI: Complies with FCC CFR 47 15.208, 15.209 and ICES-005 (B)/NMB-005 (B)
- Ingress Protection: Class IP65
- Complies with ANSI C136.41-2013 (ANSI Dimming)
- Weight: 0.52 lbs
- Warranty: 5 Years Standard, 10 Year Extended Available

Product Dimensions

![Product Dimensions Diagram]

Ordering Number Logic

<table>
<thead>
<tr>
<th>ID</th>
<th>VOLTAGE</th>
<th>CONFIGURATION</th>
<th>METERING TYPE</th>
<th>METERING PRECISION</th>
<th>ANTENNA</th>
<th>MAXIMUM LOAD</th>
<th>NETWORK</th>
<th>LOCATION OPTIONS</th>
<th>DIMMING</th>
<th>OPTIONS</th>
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<tbody>
<tr>
<td>ELWN</td>
<td>120-277</td>
<td>Internal Node</td>
<td>Load + Node</td>
<td>0.5% Utility Grade</td>
<td>No Connector</td>
<td>X = 1000 Watt</td>
<td>Network A</td>
<td>North America</td>
<td>0-10V/DALI</td>
<td>Default</td>
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<td></td>
<td>SMA Connector</td>
<td>B = Network B</td>
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Examples: