



**Up to 12 circuits of on- and off-grid control**

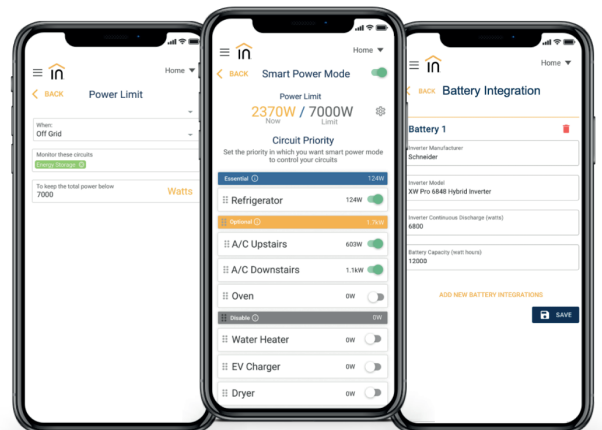
**Connect to existing service panel for turnkey setup**

**Compatible with any battery, inverter or service panel**



Lumin® is the industry pioneer of responsive load control and smart circuit technology. The universally compatible, retrofit-ready Lumin Smart Panel seamlessly integrates into existing electrical setups, making standard circuits smart and responsive. It allows homeowners to extend battery backup, monitor energy consumption and schedule circuit control based on grid outages, electricity rates, battery capacity and more. Discover the capabilities of the Lumin Smart Panel at [www.LuminSmart.com](http://www.LuminSmart.com).

**Download the Lumin App**



# Lumin Smart Panel

## Technical Specifications - Indoor

### Installation

|                         |                                                             |
|-------------------------|-------------------------------------------------------------|
| Type                    | Wall-mount; indoor only                                     |
| Installer Qualification | Local electrical codes and Lumin Certified Installer        |
| Typical Time Required   | 1.5–4 hours                                                 |
| Temperature             | 0°C to 60°C (32°F to 140°F)                                 |
| Humidity                | < 80% RH (Non-condensing)                                   |
| Altitude                | < 3000 m                                                    |
| Dimensions              | 44.6 cm × 44.6 cm × 10.1 cm<br>(17.5 in × 17.5 in × 4.0 in) |
| Weight                  | 12 kg (27 lb)                                               |
| Conductor Length        | All extend 76 cm (30 in)<br>beyond conduit end              |
| Additional Units        | Use of multiple Lumin Smart<br>Panels supported             |

### Electrical System

|                       |                                     |
|-----------------------|-------------------------------------|
| AC Voltage            | 120/240 VAC split-phase,<br>50–60Hz |
| Supply Breaker Rating | 15–20 A (non-GFCI)                  |

### Connectivity and Security

|                                   |                                            |
|-----------------------------------|--------------------------------------------|
| Connection Options                | Wi-Fi or Ethernet                          |
| Internet Bandwidth                | Approx. 0.02 Mbps                          |
| Wi-Fi Protocols                   | 802.11 b/g/n, 2.4 GHz                      |
| Wi-Fi Encryption                  | WPA and WPA2 methods                       |
| Ethernet Port                     | 1×RJ-45 (10/100/1000 Mbps)                 |
| IP Addressing                     | Dynamic (DHCP)                             |
| Cryptographic System              | TLS 1.2 (minimum)                          |
| Firewall Outbound Access Required | Ports 53, 123, 443–444,<br>and 50050–50059 |

### Managed Loads

|                                       |                                                        |
|---------------------------------------|--------------------------------------------------------|
| Max. Load Breaker Ratings Up to 50 °C | 60 a per line × 6 lines and<br>30 a per line × 6 lines |
| Load Breaker Ratings at 50–60 °C      | 50 a per line × 6 lines and<br>20 a per line × 6 lines |
| Breaker Types                         | Single pole (1 line) and dual<br>pole (2 lines)        |

### Measurement

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| Accuracy             | ±0.5% of load                                                |
| Monitoring Type      | Separate measurement of<br>lines (including dual-pole)       |
| Split-Phase Voltage  | Separate line-to-neutral<br>potential measurement            |
| Current Transformers | 2 split-core 200 A included;<br>up to 2 additional available |

### Support & Compliance

|                           |                                                                    |
|---------------------------|--------------------------------------------------------------------|
| Warranty                  | 10-year limited                                                    |
| Compatible Equipment      | All makes/models/brands of<br>electrical panels and<br>breakers    |
| Safety Compliance         | UL and CSA c22.2: 61010-1 &<br>61010-2-030; MET listing<br>E115439 |
| Radiofrequency Compliance | 47 cfr 15 (FCC)<br>RSS-gen and RSP-100 (ISED)                      |
| Integrations              | Tesla, SolarEdge and<br>Enphase batteries                          |

### User Access

|               |                                                                   |
|---------------|-------------------------------------------------------------------|
| Local Network | Live data and controls                                            |
| Applications  | iOS, Android, and web                                             |
| Data          | 1-Second granularity<br>(averaged from 16 kHz)                    |
| Load Controls | Manually/directly, automated<br>schedules, and automated<br>modes |