

# Lumin<sup>®</sup> Smart Panel



Universally compatible and retrofit ready, the Lumin Smart Panel seamlessly integrates into existing electrical setups, making standard circuits smart and responsive. Whether you're optimizing a solar + storage system, adding a generator or expanding your electrical capacity to accommodate high demand electric loads like heat pumps and EV chargers, it unlocks both insight and control into connected circuits. Now that's smart.

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Compatible with any battery, inverter or service panel.

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Up to 12 circuits of control.

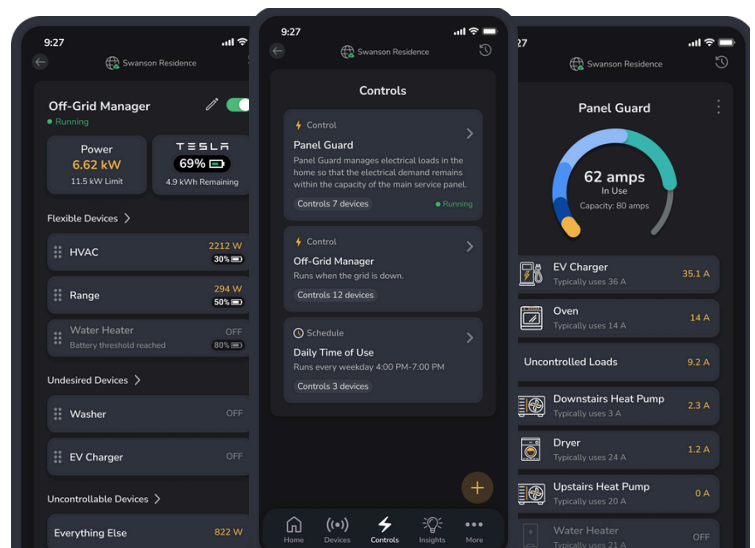
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Connects to existing service panel for turnkey setup.

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Designed, engineered and assembled in Virginia.

## Download the Lumin Energy App



Learn how the Lumin Smart Panel can help your next project at  
[www.LuminSmart.com](http://www.LuminSmart.com).

# Lumin Smart Panel Technical Specifications - Outdoor

| Installation            |   |
|-------------------------|---|
| Type                    | Surface-mount; indoor or outdoor                        |
| Installer Qualification | Local electrical codes and Lumin Certified Installer    |
| Typical Time Required   | 1.5-4 hours   |
| NEMA Rating             | Type 3R   |
| Temperature             | -30°C to 70°C (-22°F to 158°F)                          |
| Humidity                | < 100% RH   |
| Altitude                | < 3000 m  |
| Dimensions              | 55.8 cm × 48.3 cm × 14.0 cm<br>(22 in × 19 in × 5.5 in) |
| Weight                  | 12 kg (27 lb)   |
| Conductor Length        | All extend 100 cm (40 in) beyond conduit end            |

| Electrical System     |                                  |
|-----------------------|----------------------------------|
| AC Voltage            | 120/240 VAC split-phase, 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, and 50050–50059 |

| Managed Loads                         |   |
|---------------------------------------|---|
| Max. Load Breaker Ratings Up to 50 °C | 60 A per line × 6 lines and 30 A per line × 6 lines |
| Load Breaker Ratings at 50-60 °C      | 50 A per line × 6 lines and 20 A per line × 6 lines |
| Breaker Types                         | Single pole (1 line) and dual pole (2 lines)        |

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

| Support and Compliance       |  |
|------------------------------|--|
| Warranty                     | 10-year limited  |
| Compatible Equipment         | All makes/models/brands of electrical panels and breakers.           |
| Safety Compliance            | UL 916; UL and CSA C22.2: 61010-1 & 61010-2-030; MET listing E115439 |
| Radiofrequency Compliance    | 47 CFR 15 (FCC) RSS-gen and RSP-100 (ISED)                           |
| State of Charge Integrations | Tesla, SolarEdge, Enphase and EG4 batteries                          |

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