

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.



Download the Lumin App







Lumin Smart Panel Technical Specifications - Indoor



| Installation | |
|-------------------------|---|
| Туре | 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 (17.5 in × 17.5 in × 4.0 in) |
| Weight | 12 kg (27 lb) |
| Conductor Length | All extend 76 cm (30 in) beyond conduit end |
| Additional Units | Use of multiple Lumin Smart Panels supported |

| Managed Loads | |
|---------------------|--|
| Max. Load Breaker | 60 a per line × 6 lines and |
| Ratings Up to 50 °C | 30 a per line × 6 lines |
| Load Breaker | 50 a per line × 6 lines and |
| Ratings at 50-60 °C | 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 |

| 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 |

Required

| Support & Compliance | | |
|---------------------------|--|--|
| Warranty | 10-year limited | |
| Compatible Equipment | All makes/models/brands of electrical panels and breakers | |
| Safety Compliance | 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) | |
| Integrations | Tesla, SolarEdge, Enphase, EG4 and FranklinWH batteries | |

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

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Lumin Smart Panel Technical Specifications - Outdoor



| Installation | |
|-------------------------|---|
| Туре | 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 (22 in × 19 in × 5.5 in) |
| Weight | 12 kg (27 lb) |
| Conductor Length | All extend 100 cm (40 in) beyond conduit end |
| Additional Units | Use of multiple Lumin Smart Panels supported |

| Managed Loads | |
|---------------------|--|
| Max. Load Breaker | 60 A per line × 6 lines and |
| Ratings Up to 50 °c | 30 A per line × 6 lines |
| Load Breaker | 50 A per line × 6 lines and |
| Ratings at 50-60 °c | 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 |

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

Connectivity & 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 |

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