

The image shows a white, rectangular Lumin Smart Panel mounted on a wall. Above it is a standard metal circuit breaker panel. The Lumin panel has the brand name 'lumin' printed on its front. A blue arrow-shaped graphic points from the panel towards the title.

# Lumin Smart Panel

Lumin Smart Panel is a fully-integrated energy management system for residential and light commercial applications. It enables full, shared (building owner and utility) control of load via the circuit breaker panel and full mining of detailed, behind-the-meter consumption data. The combination of detailed data and full control will help shape smart energy consumption behaviors and usher in the smart grid of tomorrow.

## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Enclosure Type	Rittal KL 1511.510
RoHS Compliant	Yes

## PHYSICAL SPECIFICATIONS

Dimensions	40.0cm x 40.0cm x 12.0cm
Weight	15.2kg
Conductor Length	50.8cm

## PERFORMANCE SPECIFICATION

AC Voltage	120/240V
Feed-In Type	Single & Dual Phase
Warranty	10 Year Limited Warranty

## CONNECTIVITY AND SECURITY

Wi-Fi: 802.11b/g/n @ 2.4GHz with Internet access
WEP 64, WEP 128, WPA and WPA2 encryption methods
DHCP (dynamic) or static IP addressing
X.509 certificate encryption
Cryptographic protocol: TLS RFC 6176
AWS Multi-Region High Availability

## COMPATIBILITY AND COMPLIANCE

Panel	Any manufacturer
Breakers	Any manufacturer
Compliance	UL 916

## INSTALLATION

Licensed electrician	Required
Type	Wall mount
Time	2-3 hours

## SUPPORTED CIRCUIT BREAKERS & LOADS

Amperage	6 channels up to 60A 6 channels up to 30A
# of Circuit Breakers	Up to 12
Up to 4 split core CT's	2x 150A (main service) 2x 50A (generation)

## ENERGY MEASUREMENT SPECIFICATIONS

Each dedicated circuit metered separately
Revenue Grade
Dual phase voltage measurement
ANSI C12.20 0.5 Accuracy Class
Ability to determine loads less than 1.0W
20 kHz sampling frequency per circuit
Class 3 PCB Assembly



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