



SMART LOAD CENTER™ 125

HOME ENERGY MANAGEMENT SYSTEM

The Gateway to the Intelligent Home™

The SLC-125 Amp SMART LOAD CENTER™ is the first and only patent-protected panelboard designed to manage grid and alternative energy sources simultaneously—circuit-by-circuit. It replaces or supplements your existing breaker box, giving you full access to all available energy sources and intelligent control over how they're used.

How It Works

The SMART LOAD CENTER connects to both the utility grid and alternative energy sources (solar, battery, generator). Its intelligent software continuously evaluates energy conditions and automatically switches each circuit to the most efficient and cost-effective power source—based on your settings, battery levels, time-of-use pricing, and even the weather.

Key Features

- ☀ Simple system controls and real-time reporting
- ☀ AI-driven energy automation
- ☀ Seamless source switching: solar, battery, generator, grid
- ☀ Circuit-level monitoring and data logging
- ☀ Load-shedding during outages
- ☀ Supports time-of-use plans, net metering, and smart switching

ROI & Installer Advantages

- ☀ Optimizes system sizing for solar, battery, and generator
- ☀ Compatible with all breaker brands
- ☀ Reduces installation complexity with universal design
- ☀ Extends battery runtime for critical devices
- ☀ Increases battery life by limiting discharge rate and depth of discharge

Homeowner Benefits

- ☀ Automatically selects the lowest-cost energy
- ☀ Maximizes use of solar and stored power
- ☀ Cuts utility bills by avoiding peak rates
- ☀ Maintains comfort during outages or peak demand
- ☀ Runs more devices with smarter energy use
- ☀ Home, Vacation, and Disaster Watch modes

Utility Benefits

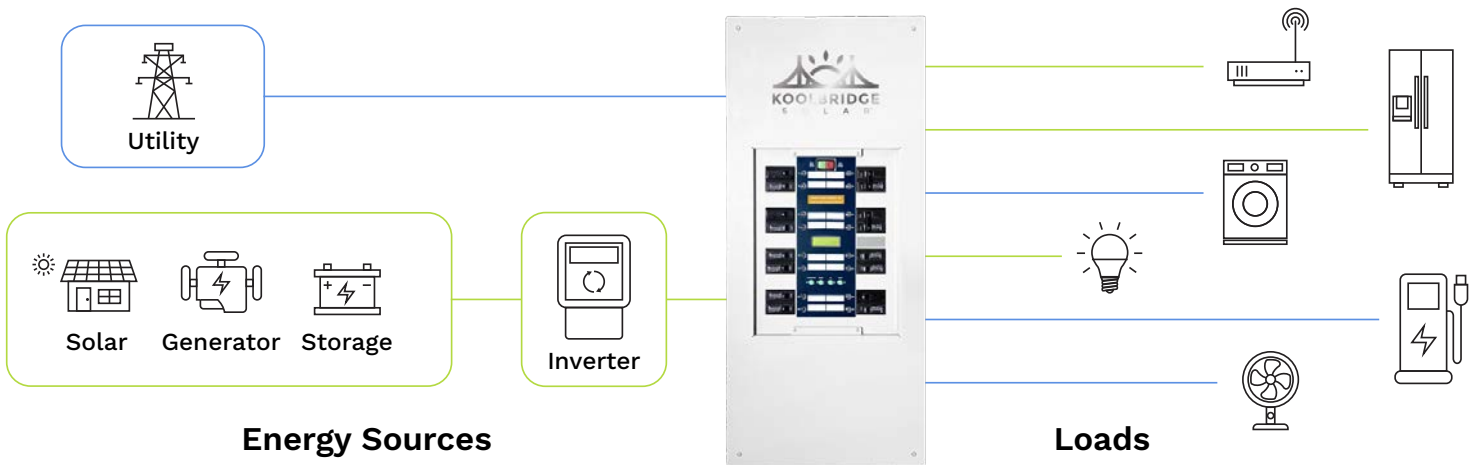
- ☀ Reduces grid peak demand
- ☀ Smooths load fluctuations
- ☀ Enables staggered restart post-outage
- ☀ Monitors and controls behind the meter
- ☀ Supports time-based grid demand limits

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Marketing Trade Name	SLC-125 Amp SMART LOAD CENTER
Product Type	Load Center
Branch Breakers	Eaton BR, Square D Home Line, and GE Q Line 10, 15, 20, 25, 30 Amps, 1&2-pole circuits in any position Up to 60 Amps 2 pole circuits in a maximum of 2 positions
Enclosure Specifications	NEMA 1 Enclosure, welded steel, white powder-coated Size is 37.5" by 14.25" by 4" Weight is 48.0 lbs. Operating temperature range is -20° to 140° Fahrenheit
Electrical Specifications	240VAC, 125 Amp, 1 phase, 3 wire Main Lug Only Wire Size - #6-#2/0 AWG (Cu/Al) Full Current Neutral Bar and Grounding Bars included
Breaker Spaces	16
Maximum Short Circuit Current Rating	5kA
*Product Certifications	UL 67 & UL 60730-1
Patent Protection	SLC Related – 14 Issued Patents, 3 Pending KBS Total – 30 Issued Patents, 5 Pending
Limited Warranty	10 years

Koolbridge SMART LOAD CENTER – Dual Bus Architecture



Typical installation showing SMART LOAD CENTER's Patented Dual Bus Architecture, sharing Utility to some loads and alternate energy to different loads simultaneously.

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Specifications are subject to change without notice. *UL Design Compliant – Certification Pending. Utilizing the SLC in any emergency or legally required standby system as classified by municipal, state, provincial, federal, or other codes or any governmental authority having jurisdiction is prohibited.

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