West Coast Meter Combinations

Title 24 Solutions

www.usa.siemens.com/residential
Siemens Title 24 Solar Meter Combination Solutions

On July 1, 2014 major revisions to California’s body of state building codes, collectively known as Title 24, will go into effect. The new requirements are designed to move California’s construction industry closer to the goal of Zero Net Energy (ZNE) residential and commercial building.

Siemens now offers an enhanced and expanded portfolio of innovative meter-load center combinations to meet the growing demands for residential solar solutions and the new requirements of Title 24, Section 6.

The products featured in this brochure highlight Siemens feature-rich and versatile portfolio of residential metering products that offer solutions to meet the changing requirements of California’s Title 24 while providing safety, long-term reliability, and innovation to meet the growing demand for alternative energy solutions in residential power distribution.

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Construction and Ratings

**Enclosures**

- **All enclosures** are NEMA type 3R rated, conform to UL standard 50, and are fabricated using G90 galvanized steel and coated with a baked-on polyester powder coating.
- **All devices** are theft resistant by use of padlock provisions.
- **All surface mount enclosures** have mounting points, including a “keyhole” provisions in the center.
- **All metered devices** are equipped with stainless steel latches and hasps.

**Interior**

- ** Aluminum bus bars** are mounted on a thermoplastic interior designed for extended life and rated 100-225 amps as marked.
- **Meter sockets** are utility grade, rated up to 200 amps continuous and conform to UL standard 414.
- **All units** are suitable for service entry equipment ONLY.
- **Meter combinations** include a factory installed neutral bar with provisions for bonding where required.
- **Each device** is 22,000 AIC rated.

Applicable US Standards
UL67, UL414, UL50
Title 24 Amendment
Starting on July 1, 2014, California is implementing significant and far reaching building code revisions known collectively as Title 24. As a whole, these code changes are intended to standardize energy efficient design and construction methods for both residential and commercial buildings. Additionally, they respond to the AB32 legislation that requires all new residential construction in California be Zero Net Energy by 2020.

The myriad of code changes that make up Title 24 effect almost every element of design and construction related to energy demand and production in California.

Solar Ready Requirement
In addition to the many changes aimed at reducing energy consumption and demand, Section 110.10 of the 2013 Building Energy Efficiency Standards lays out new requirements for solar provisioning that aim to facilitate and encourage both current and future solar electric installations. The standard has applications to various types of occupancies but most impacts single family residential construction.

While the new standard does not mandate solar panel installation at the time of construction, it does define new solar provisioning requirements designed to make future solar electric installations easier and more affordable for home owners.

Section 110.10 of the 2013 California Building Energy Efficiency Standards outlines the new "Solar Ready Requirements" for single family residences that take effect on July 1, 2014 under Title 24, Part 6.

Code Changes Pertaining to the Main Electrical Service Panel
As part of the solar ready requirements, Title 24 also defines new guidelines for the main electrical service panel used in new residential construction in subdivisions of 10 or more homes. Under the new code, the main electrical panel must have a minimum busbar rating of 200 amps. Additionally, all service entry panels are required to have 2 reserved spaces on the load-side to allow for installation of a double pole circuit breaker for future solar electric installation. These reserved spaces are required to be on the opposite (load) end from the main circuit breaker on the busbar and permanently marked as "For Future Solar Electric".

To meet the new requirements that pertain to the main electrical service panel used in the construction of new residences, as well as support increasing market demands for products that support solar energy installations, Siemens offers a full portfolio of meter-load center combination devices.
# 40A Max Solar Input Meter-Load Center Combinations

**EUSERC and CA Title 24 Compliant, 1-Phase, 3-Wire, 120/240V AC**

To support our valued partners in California, Siemens has redesigned the most-in-demand 200 and 225 amp meter-load center combination devices to meet the new requirements of Title 24, Part 6. The units listed below represent Siemens most economical solution for meeting the solar provisioning requirement in neighborhoods of 10 or more homes in California. Each device can support up to a 40 amp solar input backfed onto the main.

- UL Listed
- 22,000 AIC rated
- Suitable for use only as service entrance equipment
- Designed to meet all EUSERC and California Title 24 Standards
- Top two spaces reserved/labeled for backfed solar input
- Main Breaker located opposite the reserved solar spaces on the bus
- Raised basepan and neutral bars with patented INSTA-WIRE™ design for ease of wiring

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70A Max Solar Input Meter-Load Center Combinations

EUSERC and CA Title 24 Compliant, 1-Phase, 3-Wire, 120/240V AC

The demand for residential solar metering solutions is rapidly growing. Siemens is committed to offering new and innovative products and solutions to support the needs of various residential alternative energy applications. Thus, we are proud to introduce two exciting new 24 space, 42 circuit, side-by-side meter-load center combination devices that can support a PV input up to 70A backfed on the main. These new ESV/EFV combinations feature a 200A main breaker and an enhanced 225A rated bus offer flexible new solution for residential solar applications requiring a higher ampacity alternative energy input. With the featured 225A enhanced bus rating and 200A main breaker, our customers are now able to utilize higher amp solar inputs without derating. These new meter-load center combination devices represent an innovative and versatile addition to Siemens portfolio of high quality, Title 24 compliant, residential solar solutions.

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100A Max Solar Input Meter-Load Center Combinations

EUSERC and CA Title 24 Compliant, 1-Phase, 3-Wire, 120/240V AC

COMING SUMMER 2014!

Coming this summer, Siemens line of feature rich "solar Ready" meter-load center combination devices will feature the industries first dedicated 100A max alternate energy input. These devices feature a dedicated alternative energy input so power feeds ahead of the service disconnect on the load side of the meter socket.

This innovative design solution, offered only by Siemens, eliminates the need to de-rate the main breaker and take up valuable load side spaces by backfeeding on to the bussing. Currently this feature rich line of meter-load center combinations can accommodate up to 60A solar input.

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EUSERC & CA Title 24 Compliant Meter-Load Center Combination, 200 Amp with Alternate Energy Input & Full Load Center Width (Side-by-Side Construction)

EUSERC & CA Title 24 Compliant Meter-Load Center Combination, 200 Amp with Alternate Energy Input & Between Studs Width (Side-by-Side Construction)

EUSERC & CA Title 24 Compliant Meter-Load Center Combination, 200 Amp with Alternate Energy Input Overhead Feed Only
The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

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