

## SolarTech Power Solutions

# What are the standards for outdoor power supplies



## Overview

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As defined in the Code of Federal Regulations (CFR), "external power supply" means an external power supply circuit that is used to convert household electric current into DC current or lower-voltage AC current to operate a consumer product. However, the term does not include any "commercial and.

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The Energy Policy and Conservation Act, as amended ("EPCA"), prescribes energy conservation standards for various consumer products and certain commercial and industrial equipment, including external power supplies ("EPSs"). EPCA also requires the U.S. Department of Energy ("DOE") to periodically.

The central component of OPEI's product standards program is the development, publication, and maintenance of ANSI standards for outdoor power equipment across multiple power sources. The products and components covered include consumer and commercial lawn mowers, snow throwers, tillers, chain.

For the past several years, various international organizations, spearheaded by the EPA's Energy Star® organization, issued different standards regarding

efficiency and standby power consumption requirements for external power supplies. In 2014, the US Department of Energy formalized their newest.

The global regulatory environment surrounding the legislation of external power supply efficiency and no-load power draw has rapidly evolved over the past decade since the California Energy Commission (CEC) implemented the first mandatory standard in 2004. With the publication in 2014 of a new set. What are the new energy conservation standards for external power supplies?

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What are the labeling requirements for external power supplies?

Labeling requirements will be mandated to meet the same International Efficiency Marking Protocol for External Power Supplies Version 3.0 as the previous Level V standard. Globally, it is expected that other nations will soon follow suit with the DoE Level VI standard.

When will external power supplies become law?

Although there is not an official timeline for these voluntary standards becoming law, Original Equipment Manufacturers (OEMs) who design external power supplies into their products would best be served to future-proof their designs to the latest regulations to ensure that they are in compliance in each region where their product is sold.

Do manufacturers have to comply with energy conservation standards?

Manufacturers have been required to comply with the U.S. Department of Energy (DOE) energy conservation standards for external power supplies since 2007.

What is a basic voltage external power supply?

Basic-voltage external power supply means an external power supply that is not a low-voltage power supply. DoE Level VI also defines power supplies as direct operation and indirect operation products. A direct operation product is an external power supply (EPS) that functions in its end product without the assistance of a battery.

Do all external power supplies meet efficiency levels?

While many countries are establishing voluntary programs harmonized to the international efficiency marking protocol system first established by Energy Star, the following countries and regions now have regulations in place mandating that all external power supplies shipped across their borders meet the specified efficiency level:

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