# East Asia outdoor power supply entry requirements

## Overview

Does Japan have an external power supply standard?

Japan has a mandatory energy efficiency standard and a voluntary program called Top Runner, but neither includes an external power supply specific standard. After California released its initial state regulation on external power supplies in 2004, Energy Star developed and released its first national standard for external power supplies.

Which countries adopt voluntary and mandatory external power supply standards?

Since then, the US, European Union, China and other countries adopted both voluntary and mandatory external power supply standards as part of energy conservation legislation. Table 1 shows a breakdown of some of the current voluntary and mandatory standards by region.

What are Energy Star standards for external power supplies?

It started with relatively simple ENERGY STAR standards for external power supplies in the 1990s. Today, there are standards tailored for the specific operating conditions of various applications, ranging from data center power supplies to white goods, LED light bulbs, electric vehicle battery chargers, photovoltaic inverters, and others.

Are external power supplies regulated by the US & EU?

So far, in the few months that have passed in 2014, the US and the EU have imposed new regulations for external power supplies. As of January, tier 1 of the EU Code of Conduct (v5) standard for external power supplies became effective.

What is EISA's new external power supply energy conversation standard?

In February, the Department of Energy filed a final ruling on their new External Power Supply Energy Conversation standard, a significant expansion of the

original EISA 2007 EPS standards. The original EISA standard had two classes of power supplies, Class A and Non-Class A power supplies.

Do external power supplies have a power efficiency mandate?

At a global level, mandates for power efficiency exist for most consumer electronics and home appliances. External power supplies have had regulations dating back to 2004, when the California Energy Commission created one of the first mandates for efficiency of external power supplies used to power appliances or consumer electronic devices.

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