

## **SolarInnovate Energy Solutions**

# **Assembled outdoor power supply specifications and standards**



## Overview

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What is the average efficiency of a power supply?

The average efficiency is based on the average of the efficiencies of the power supply taken at 25, 50, 75 and 100% loads. As I mentioned earlier, the DoE average efficiency standard (Table 4) is not as stringent as the CoC standard, and does not include a 10% load efficiency requirement.

Why do energy agencies need external power supplies?

Energy agencies around the world are concerned about growing power consumption and the amount of available deliverable energy. One of the largest demands on the world's power grid comes from external power supplies (EPSs); these include laptop adapters and phone and tablet USB chargers/adapters.

How efficient is EPS power supply?

This is mostly because of the power-dissipation and power-density requirements. To help increase EPS overall efficiency, the CoC has specifications for four-point efficiency and 10% load efficiency (Table 3). The average efficiency is based on the average of the efficiencies of the power supply taken at 25, 50, 75 and 100% loads.

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