

# What does outdoor power ampere-hour mean





## Overview

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What is an ampere hour (Ah or amp hour)?

Ampere hours -- sometimes abbreviated as Ah or amp hours -- is the amount of energy charge in a battery that enables 1 ampere of current to flow for one hour. Another way of saying it is that 1 Ah is the rating indicating how much amperage a battery can provide for one hour.

What is an amp hour?

An amp hour is a measurement of how many amps flow over a one hour period. For example, a 150 Ah battery would be able to expel 150 amps in one hour, or 150 Ah. This same 150 Ah battery would expel 300 amps in two hours, or 300 Ah. In short, amp hours show how much current a battery can supply for a certain period of time.

How to convert watt hours to ampere-hours?

If we want to convert watt-hours to ampere-hours, we need to go through these steps:  $\text{Watt hours (Wh)} = \text{Amp hour (Ah)} \times \text{Volts (V)}$  This calculation gives you the total energy capacity and gives context to the work done by a battery. For example, to calculate total energy from a 60V and 20Ah ebike battery, you would calculate  $20\text{Ah} \times 60\text{v} = 1200\text{Wh}$ .

What are amp hours & watt hours?

Amp-hours (Ah) measure the electric charge a battery can deliver over time. Unlike watt hours, which indicate total energy use, amp hours show the available current over a set period, and are calculated as:  $\text{Amp Hours (Ah)} = \text{Current (Amps)} \times \text{Time (Hours)}$



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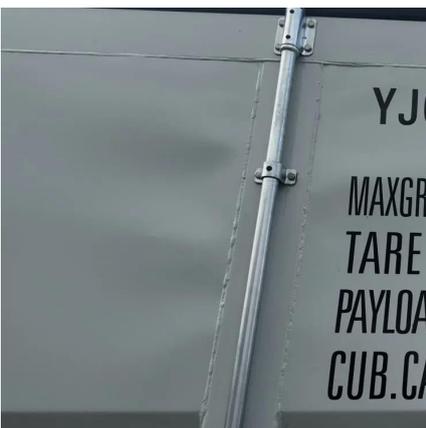
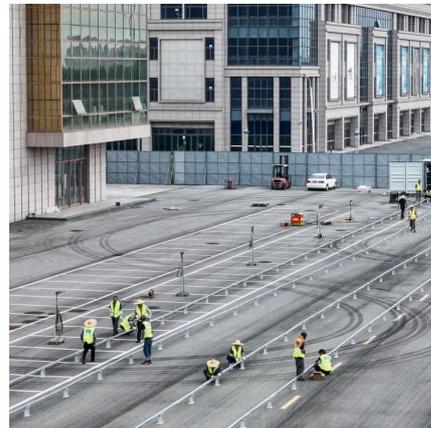


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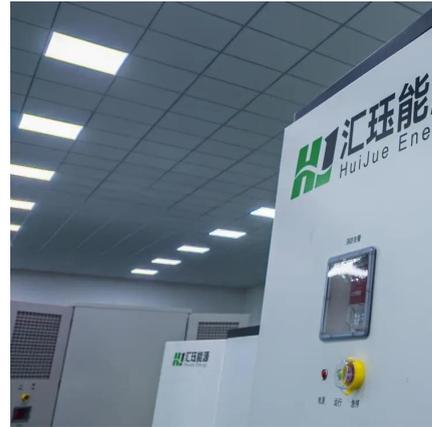
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