



# Simple calculation on solar pv system design

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Whether you here as a student learning about solar or someone just brushing up their knowledge, here are 59 of the most used calculation used in the solar industry. We will continue to add to this list so please keep coming back to see what is new. Let's dive into the primary calculations needed for a simple residential PV design.

If you're planning to include a storage system, calculating the battery capacity is essential. This calculation takes into account the average daily consumption and desired autonomy (number of days you want your system to operate when there's no sun).

The inverter converts the DC electricity from the panels (and battery if present) into AC electricity for home use. Its size should be at least as large as the PV array output under peak conditions.

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