



OPTIMAL SIZING CALCULATOR TOOL

Optimal parameterization of a photovoltaic (PV) and a battery energy storage system (BESS) add-on for a consumer. To maximize the contributions while minimizing the price of the installations, the calculator finds the optimal sizes of a PV and a BESS for a site. Those sizes are peak power of the PV system, energy capacity of the BESS, and power converter rated power of the BESS.

OPTIMAL
SOLUTION
FOUND

RESULTS

Optimal
battery
size



Optimal
power
converter



Optimal
PV size



ON/C

A selection of choices is stored in every parameter. Choose the appropriate for your application.



HELP
Users manual



Messages
inform about
the progress



Pre-defined &
customizable
power profiles



PV SYSTEM PARAMETERS

BESS PARAMETERS

9

Orientation

8

Inclination

1/X

Number of
cycles

π

Price of
new power
converter

7

Lifetime of
PV system

6

Max.
possible
peak power

5

Price of
PV system

—

Charging
efficiency

M+

Lifetime
of power
converter

BASIC PARAMETERS

4

Yearly
consumption

3

Consumer
type

2

Investment
payoff
period

\times

Depth of
discharge

\div

Discharging
efficiency

1

Optimal
criterion

0

Country

\pm

Peak power
billing

\cdot

Price of new
battery pack

