




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.




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	\bullet Price of new battery pack	

