

Power budget

List every load. Daily energy and average current calculate automatically; enter battery capacity below to see runtime.

Load	Power W	Hours per day	Qty	Wh per day
LED lights	6	5	2	60
Phone charging	10	2	1	20
12 V fridge	45	8	1	360
Laptop	60	3	1	180
Total				620

Battery capacity Wh	1200
Usable fraction	0.8
Days of autonomy	1.55

Days of autonomy = usable battery energy ÷ daily consumption, with no recharging.