

PRINTABLE WORKSHEET

Home Load Assessment Sheet

List the appliances that matter, estimate simultaneous power and calculate the energy needed for daily use or backup.

Designed for: Homeowners, renters, home offices and small businesses

KENYA EDITION • 2026



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INSTRUCTIONS

Complete this before requesting a quotation

Use the nameplate rating where possible. Separate essential loads from optional or high-power appliances. Record the number of hours each appliance operates and the hours it must remain available during an outage.

Preliminary only

Motor starting current, inverter waveform, battery current limits, temperature, cable losses and appliance duty cycles require professional verification.

[illegible]

SUMMARY

Convert the appliance list into design questions

Total running load of essential appliances (W) _____

Largest motor/compressor start-up requirement (W or VA) _____

Estimated daily energy of all selected loads (kWh/day) _____

Estimated backup energy required (kWh) _____

Preferred battery chemistry _____

Preferred backup time _____

Available roof/ground area _____

Single-phase or three-phase supply _____

Monthly KPLC consumption range (kWh) _____

Future appliances or expansion _____

High-power loads to discuss separately

- ☐ Electric cooker / oven
- ☐ Kettle
- ☐ Iron box
- ☐ Water heater / geyser
- ☐ Water pump
- ☐ Air conditioner
- ☐ Microwave
- ☐ Washing machine
- ☐ Welder or workshop tool

Kenya reference note: Regulatory requirements, licensing categories, tariffs and utility processes may change. Confirm current requirements through EPRA (<https://www.epra.go.ke/>), Kenya Law (<https://new.kenyalaw.org/>), Kenya Power (<https://www.kplc.co.ke/>) and KEBS (<https://www.kebs.org/>) before making a final technical or investment decision.