

HOME POWER STATION

ZNS Haven 1000

Reliable backup for your home.

2 kWh



1000w

AC OUTPUT

2kWh

CAPACITY

10,000

CYCLES

550w

SOLAR IN

LiFePO_4 · 220 V PURE SINE WAVE · SOLAR & GRID

PLEASE READ BEFORE FIRST USE

01 GETTING STARTED

Welcome home.

Everything you need is in the box. Set-up takes minutes.



WHAT'S IN THE BOX

- | | | |
|---|------------------------------|-----------|
| 1 | ZNS Haven 1000 Power Station | 18.0 KG |
| 2 | MC4 → XT60 Adapter Cable | SOLAR |
| 3 | AC Charging Cable | GRID |
| 4 | User Guide | THIS BOOK |



FIRST USE

Charge fully before first use. Press and hold the power button for **0.5 seconds** to wake the unit from sleep – the status LED will pulse gently to greet you.



SAFETY ESSENTIALS



Keep dry at all times



Do not disassemble



Never block ventilation



Max total load 1000 W



Use **0–45 °C** · store **–20–45 °C**



Not permitted on aircraft

02 POWERING YOUR DEVICES

Clean power, three outlets.

Pure sine wave output — safe for your most sensitive electronics.



AC OUTPUT

3 × 220 V · 1000 W

Three 220 V outlets deliver clean **pure sine wave** power. Total connected load must not exceed **1000 W**.



WI-FI
ROUTER



TV



FAN



LAPTOP



MINI
FRIDGE



LIGHTING



SECURITY
CAMERA



USB OUTPUT

2 × USB-A · 5 V / 2 A

Two USB-A ports power phones, power banks, earphones and small electronics — **up to 10 W per port**.



UNDERSTAND YOUR LOAD

Add up the wattage of every connected device. If the total approaches **1000 W**, over-power protection activates and AC output switches off. Simply disconnect some devices and restart.

03 CHARGING YOUR HAVEN

Sun or socket. Your choice.

Two ways to recharge — both fully automatic.



SOLAR CHARGING

550 W MPPT

Connect your solar panel to the **XT60 port** using the included MC4 adapter. The built-in **MPPT controller** optimises the input automatically — no configuration needed.

Input range

11–55 V • UP TO 550 W

Full charge

~3.5 H IN STRONG SUNLIGHT



GRID CHARGING

1000 W MAX

Connect the AC charging cable to any **220–240 V** wall outlet. Maximum charging power is **1000 W**.



IMPORTANT — READ FIRST

Solar input voltage must never exceed **60 V**. Higher voltage triggers protection and may damage the unit. Damage from non-matching solar panels used improperly is **not covered under warranty**.

04 READING THE LIGHTS

One glance says it all.

The status LED speaks a simple language.

**STATUS LED****Off**

NO LIGHT

**Standby**

SLOW GREEN PULSE

**Starting up**

QUICK GREEN PULSE

**AC active**

SOLID GREEN

**Fault**

SOLID RED

**BATTERY LEVEL**

4 GREEN LEDs

Four green LEDs show remaining charge.



CHARGING – NEXT LEVEL PULSES



IN USE – ACTIVE LEDs GLOW STEADY

At **0%**, the red LED blinks for **10 seconds**, then the unit shuts down automatically to protect the battery.

05 CONTROLS

One button. Everything.

Press duration does the talking.

1 THE POWER BUTTON

0.5s

FROM OFF

→ **Wake to Standby** · DC on, AC off**0.5s**

FROM STANDBY

→ **Start inverter** · AC on**0.5s**

FROM ON

→ **Return to Standby** · AC off**3s**

FROM STANDBY

→ **Shut down completely****3s**

FROM ON

→ **Shut down completely**

2 IF SOMETHING GOES WRONG

A **solid red LED** means the unit has stopped due to overload or overheating.

1**Unplug everything** from the unit.**2**Hold the power button for **3 seconds** to shut down.**3****Wait 10 minutes**, then restart.**4**Red LED returns? Contact **ZEN & SHORE support**.

06 CARE & MAINTENANCE

Built to last 10,000 cycles.

A little attention keeps your Haven at its best.



EVERYDAY USE

Keep in a **dry, well-ventilated** space. Never cover the ventilation holes, and do not operate unattended for extended periods.



LONG-TERM STORAGE

OVER 1 MONTH

Charge to **~50%** before storing. Every three months, cycle the battery — discharge to **25%**, then recharge to **75%**. This preserves capacity and extends life.



CLEANING

Wipe the exterior with a **soft, dry cloth** only. No liquids or solvents.



END OF LIFE

LiFePO₄ batteries must be **recycled properly** — never in household waste.



RECYCLING GUIDANCE

Contact your local recycling facility or **ZEN & SHORE** for guidance on responsible battery disposal.

MODEL	ZNS Haven 1000 · Home Power Station
BATTERY	2 kWh · LiFePO ₄ · 10,000 cycles · ~8 years
AC OUTPUT	1000 W · 220 V · 3 outlets · pure sine wave
AC INPUT	1000 W · 220–240 V grid charging
USB OUTPUT	2 × USB-A · 5 V / 2 A · 10 W max per port
SOLAR INPUT	550 W MPPT · XT60 · 11–55 V · 60 V max
DIMENSIONS	360 × 255 × 147 mm (D × H × W)
WEIGHT	18.0 kg
OPERATING	0 °C to 45 °C
STORAGE	–20 °C to 45 °C
ALTITUDE	< 2000 m
HUMIDITY	95%
PROTECTION	OPP · OTP · OVP · SCP · IP20

MSDS
DOCUMENTED

24 MO
WARRANTY

*Questions, troubleshooting, or service —
we're here for you.*

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