

Datasheet - Growatt Ultra 14kW (Full Version)

Datasheet - Growatt Ultra 14kW Off-Grid Power Station

Inverter - Growatt SPF3500T (×4)

Battery - Growatt AXE 5.0L-C1 (×4)

Solar Panels - 440W Monocrystalline (×32)

System Overview

The Growatt Ultra 14kW Off-Grid Power Station is a fully integrated solar energy system designed for independent energy generation in remote areas, backup power applications, and sustainable living. It combines high-efficiency solar modules, robust lithium battery storage, and off-grid inverter technology into one scalable and intelligent system.

- Supports residential, cabin, agricultural, and light commercial loads
- Offers pure sine wave AC power for sensitive equipment
- Modular & expandable for future load growth

Electrical Specifications (System Level)

Wiring & Protection

Environmental Ratings

System Architecture Summary

Solar Panels -> Inverter MPPTs -> Batteries + AC Loads

- Solar energy is harvested through four strings of monocrystalline panels.

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- Each string feeds directly into a dedicated Growatt SPF3500T inverter with MPPT controller.
- All four inverters are paralleled for synchronized output.
- The AXE5.0 batteries are connected in parallel and communicate via a Growatt BMU.
- The SHINE Wi-Fi module enables real-time monitoring of all components.