

Off-Grid Solar Living Solution

FOLDABLE SOLAR PREFAB HOUSE

Foldable Design | Solar Powered | Off-Grid Ready



The Foldable Solar Prefab House combines a compact foldable structure with an independent solar power system, providing a practical and comfortable living solution for locations with limited or no access to the power grid.



Foldable Structure

Compact design for transportation and deployment.



Solar Powered

Equipped with a solar power system for independent energy supply.



Quick Deployment

Designed for efficient installation and rapid setup.



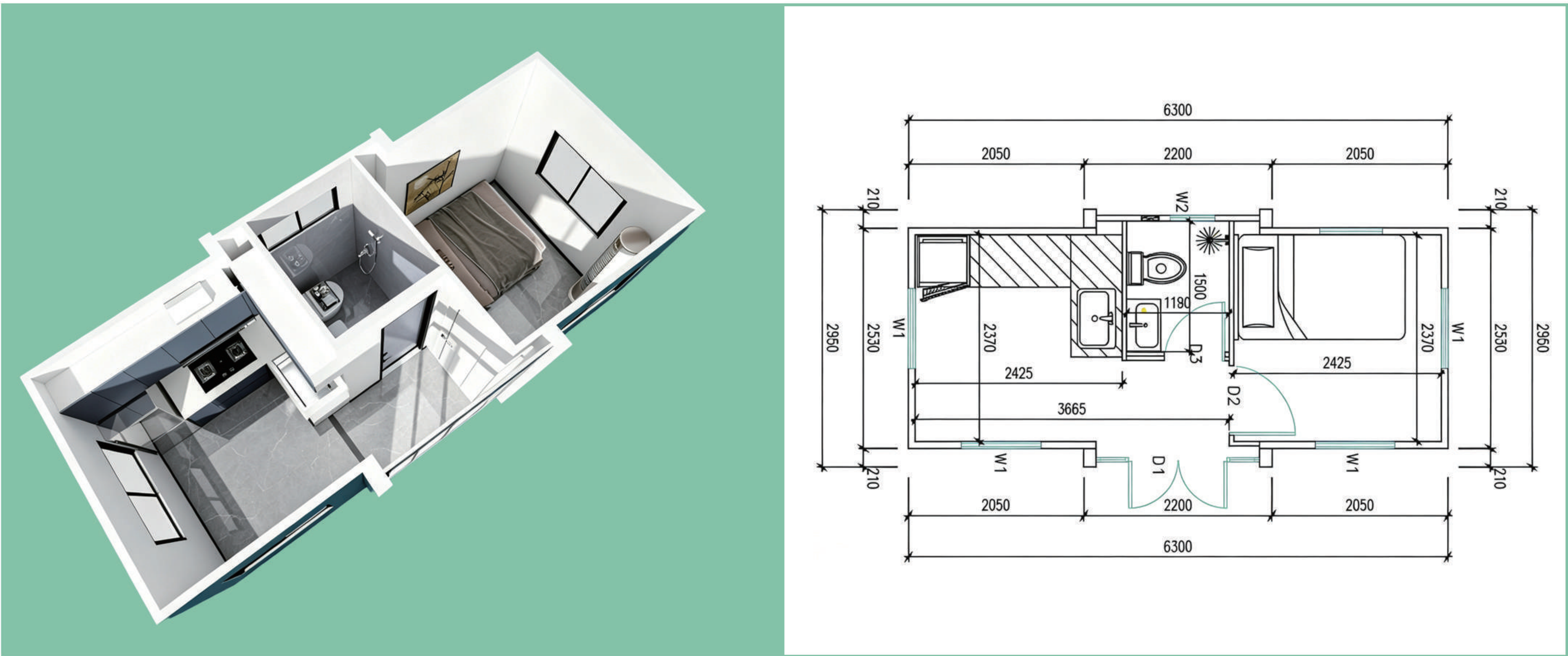
Off-Grid Living

Suitable for remote areas without reliable grid access.



18m² / 1 Bedrooms, 1 Living Room & 1 Bathroom

Foldable House Structure & Design

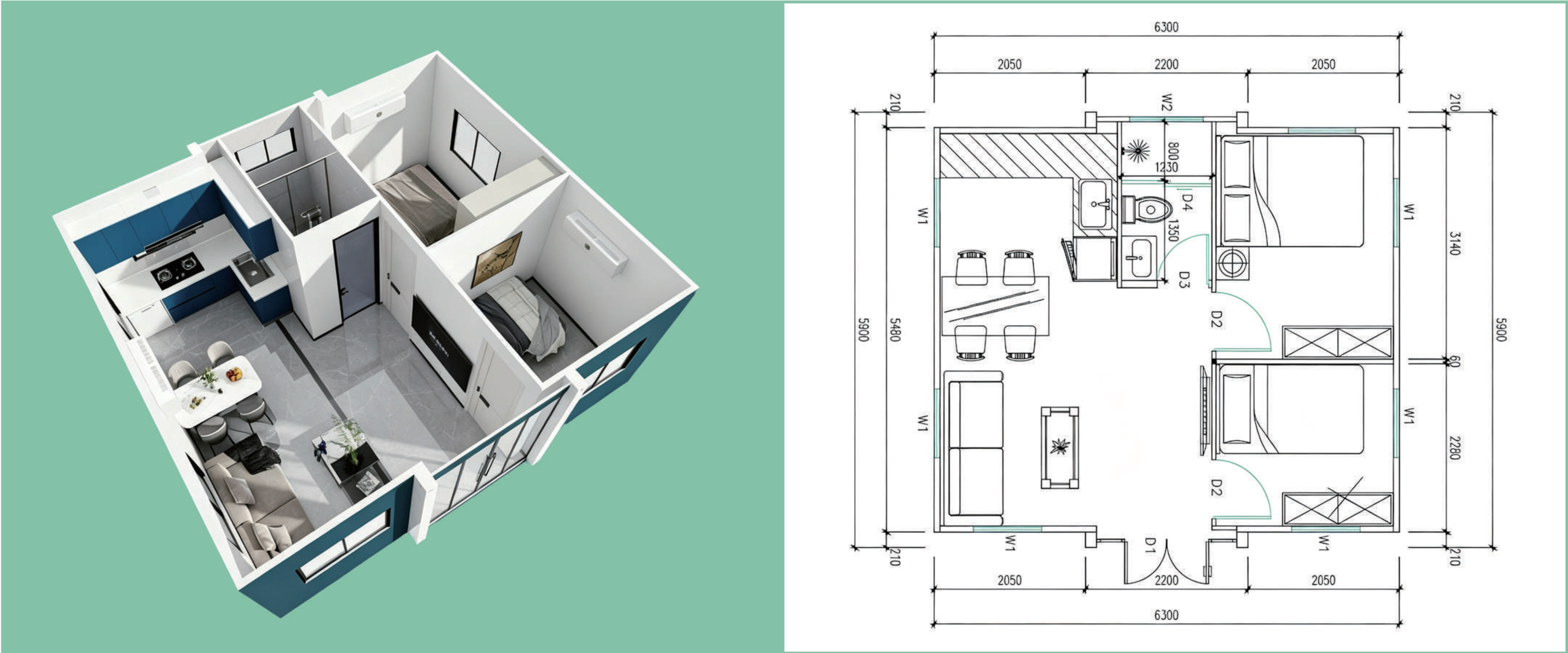


Key Specifications (18m ²)	
Overall Dimensions	2950 × 6300 × 2480 mm
Folded Dimensions	2950 × 2200 × 2480 mm
Estimated Net Weight	2 Tons
Shipping Reference	4 Units per 40HQ Container
Installation Reference	4–6 People, Approx. 1 Day per Unit
Prefabrication	Factory-Preinstalled Plumbing and Electrical Systems; Separate Wet and Dry Bathroom Areas

37m²

2 Bedrooms, 1 Living Room & 1 Bathroom

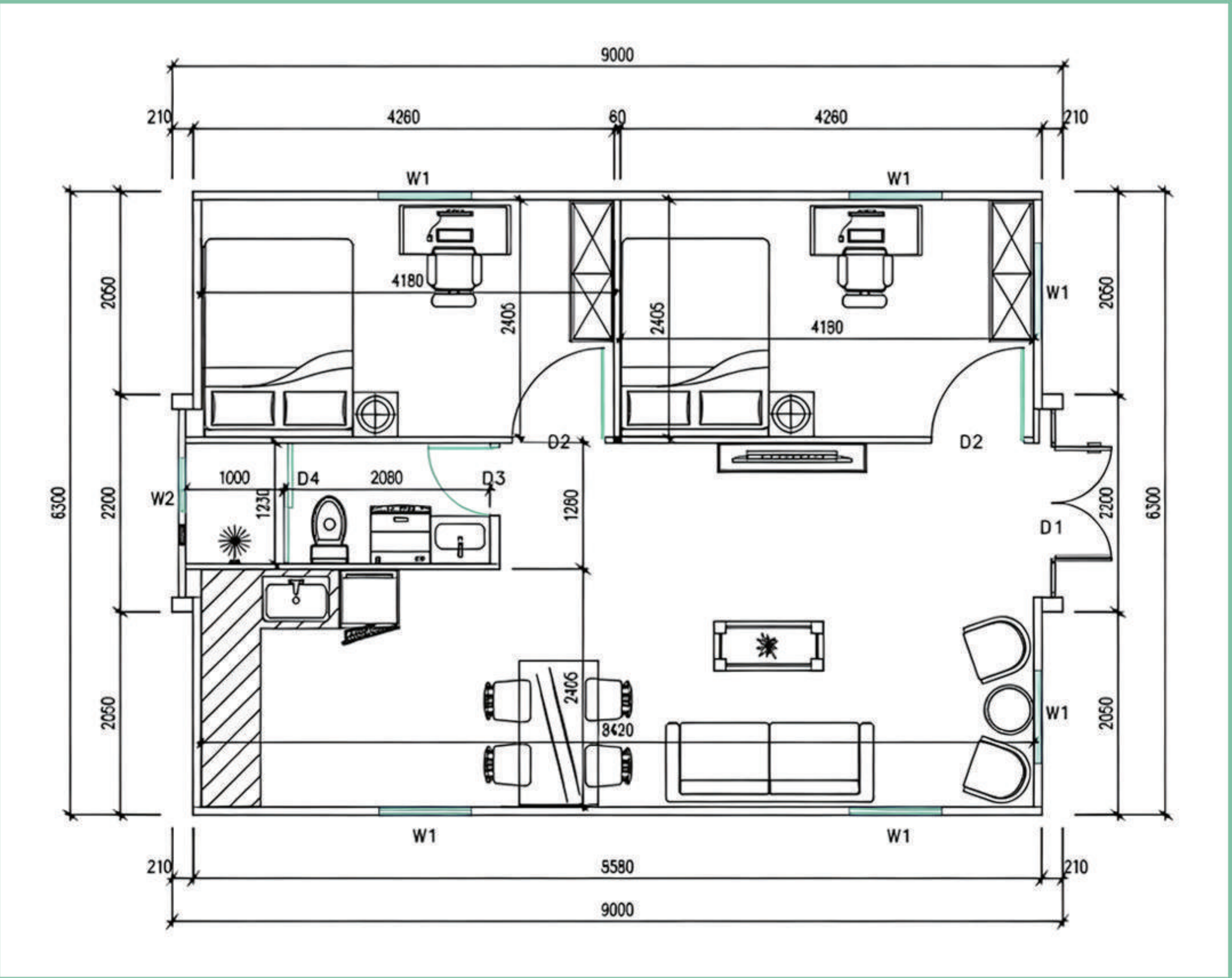
Foldable House Structure & Design



Key Specifications (37m ²)	
Overall Dimensions	5900 × 6300 × 2480 mm
Folded Dimensions	5900 × 2200 × 2480 mm
Estimated Net Weight	3.5 Tons
Shipping Reference	2 Units per 40HQ Container
Installation Reference	4–6 People, Approx. 1 Day per Unit
Prefabrication	Factory-Preinstalled Plumbing and Electrical Systems; Separate Wet and Dry Bathroom Areas

56m² / 2 Bedrooms, 1 Living Room & 1 Bathroom

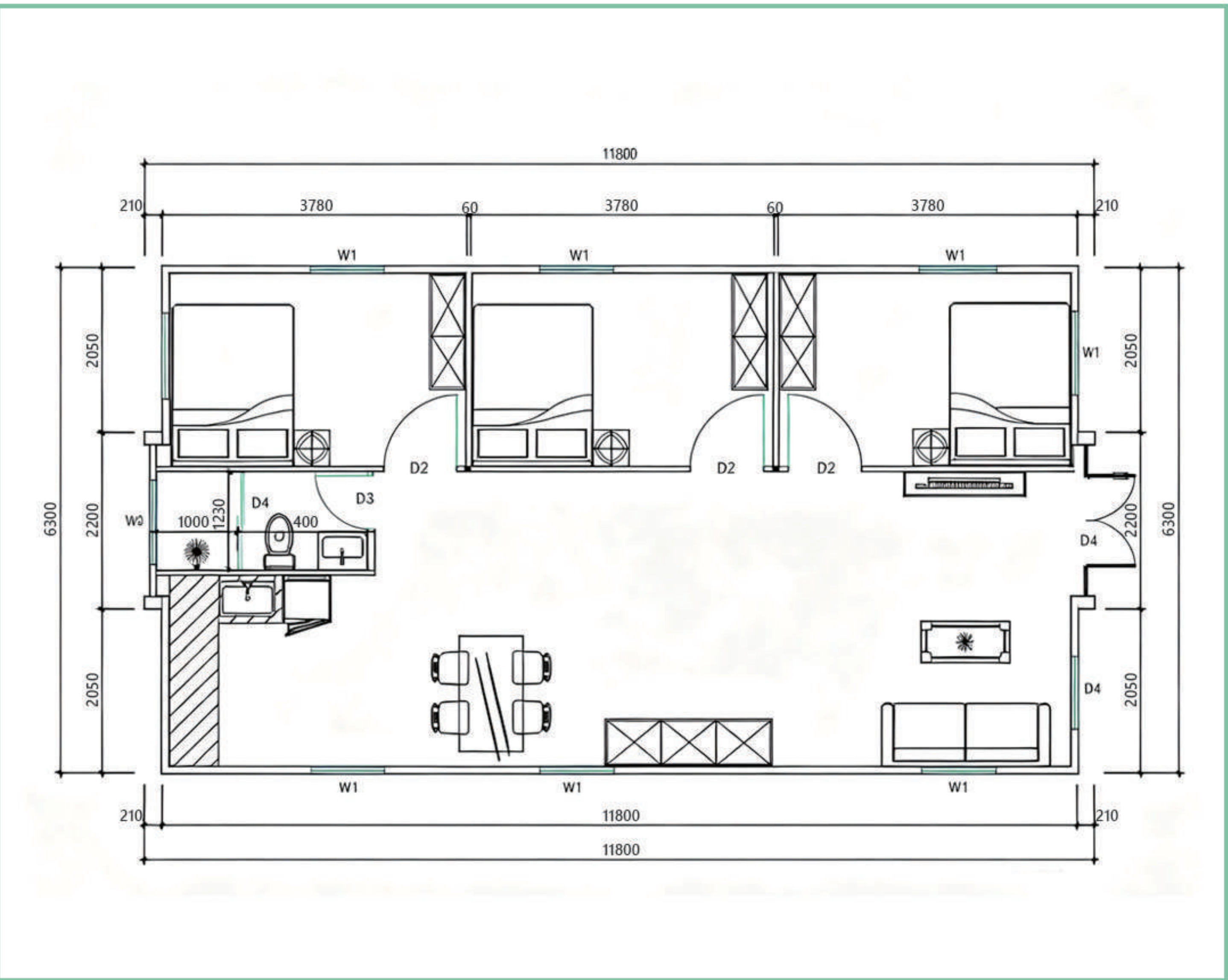
Foldable House Structure & Design



Key Specifications (56m ²)	
Overall Dimensions	9000 × 6300 × 2480 mm
Folded Dimensions	9000 × 2200 × 2480 mm
Estimated Net Weight	5.5 Tons
Shipping Reference	1 Units per 40HQ Container
Installation Reference	8–10 People, Approx. 1 Day per Unit
Prefabrication	Factory-Preinstalled Plumbing and Electrical Systems; Separate Wet and Dry Bathroom Areas

74m² / 2 Bedrooms, 1 Living Room & 1 Bathroom

Foldable House Structure & Design

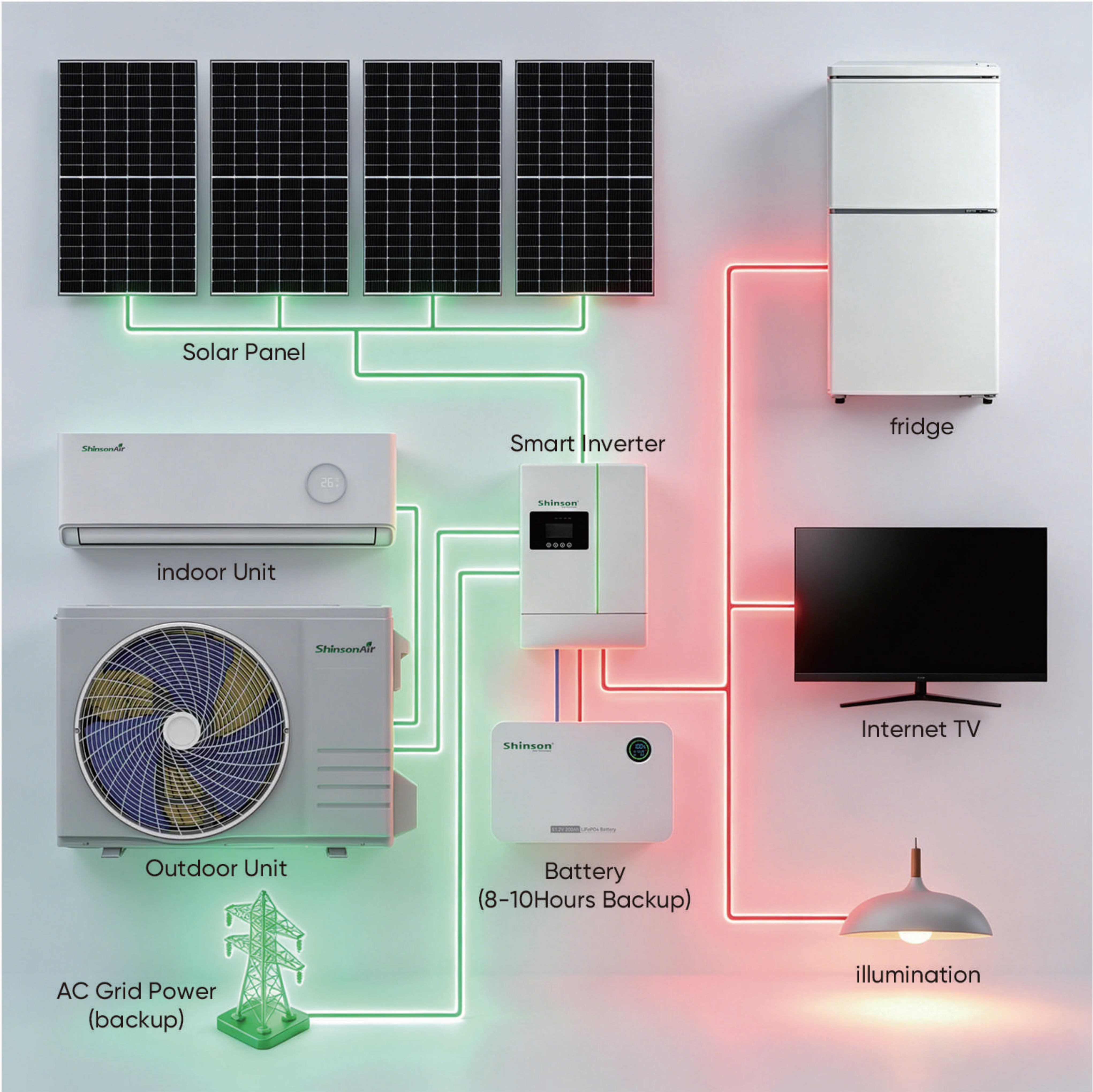


Key Specifications (74m²)	
Overall Dimensions	11800×6300×2480mm
Folded Dimensions	11800 × 2200 × 2480 mm
Estimated Net Weight	6.5 Tons
Shipping Reference	1 Units per 40HQ Container
Installation Reference	10–12 People, Approx. 1 Day per Unit
Prefabrication	Factory-Preinstalled Plumbing and Electrical Systems; Separate Wet and Dry Bathroom Areas



Foldable Solar House + Off-Grid AC System

Your Self-Sufficient Green Living Solution



Our foldable solar prefab house is integrated with a complete off-grid air conditioner system, delivering a truly independent and comfortable mobile home. The package includes high-efficiency solar panels, a large-capacity lithium battery, an intelligent inverter, and an energy-saving air conditioner – a full energy loop in one compact design.

The smart control system continuously monitors energy generation and consumption, always prioritizing solar power and storing surplus energy in the battery. When sunlight is insufficient, it automatically and seamlessly switches to battery power, guaranteeing reliable cooling around the clock – even in remote areas without grid access.

Beyond powerful cooling, the system also powers everyday appliances such as TVs, refrigerators, lighting, fans, and other small loads, covering all basic living needs. Combined with the foldable, portable house structure, you can quickly set up a fully off-grid, eco-friendly home anywhere – perfect for camping sites, farmhouses, remote worksites, or emergency shelters.



Product Performance



Wind Resistance
Level 8



Seismic Resistance
Level 10



Cold-Resistant &
Thermal Insulation



Service Life
30 Years



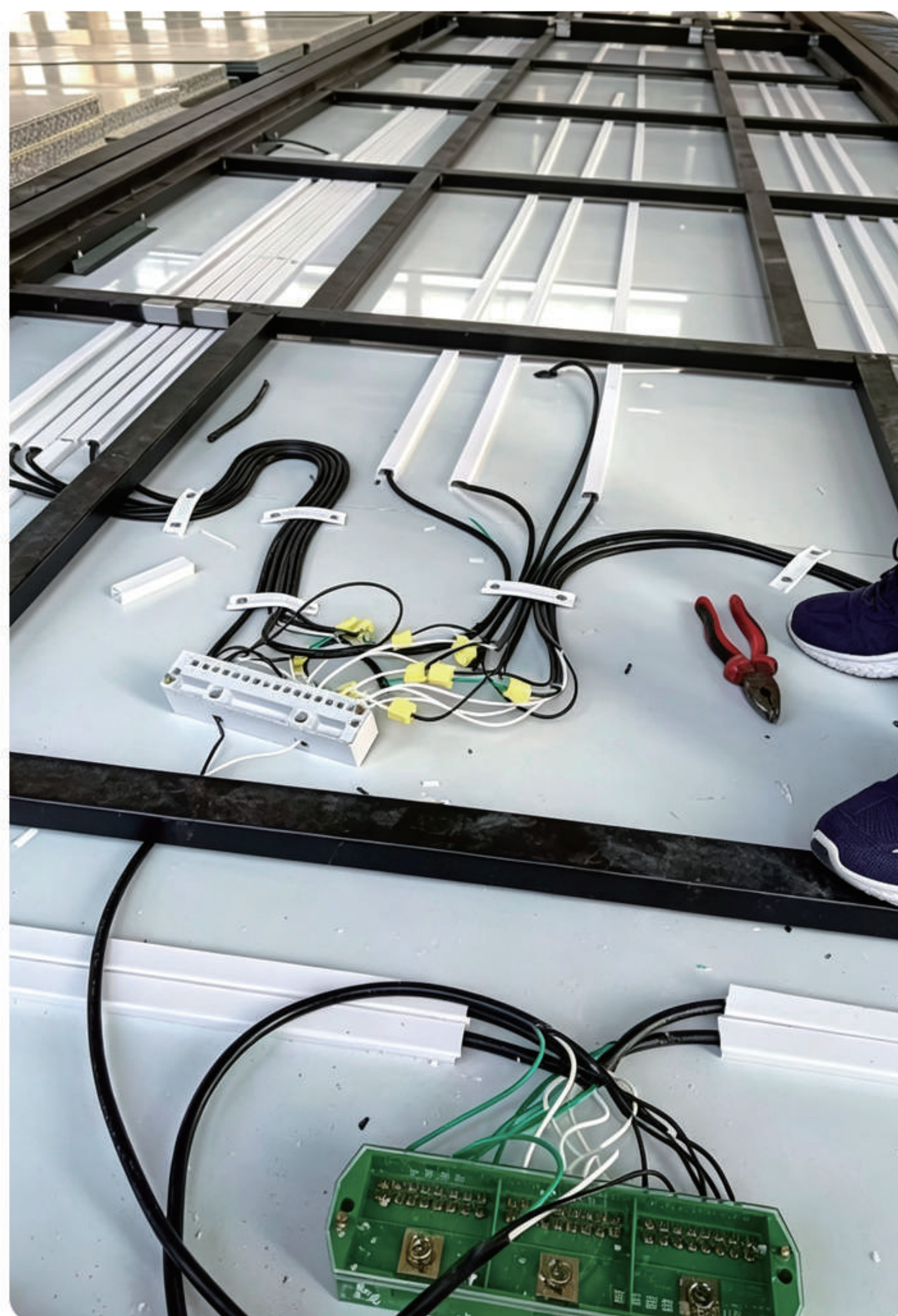
Reinforced Steel Structure Frame



Wall Composite Layer



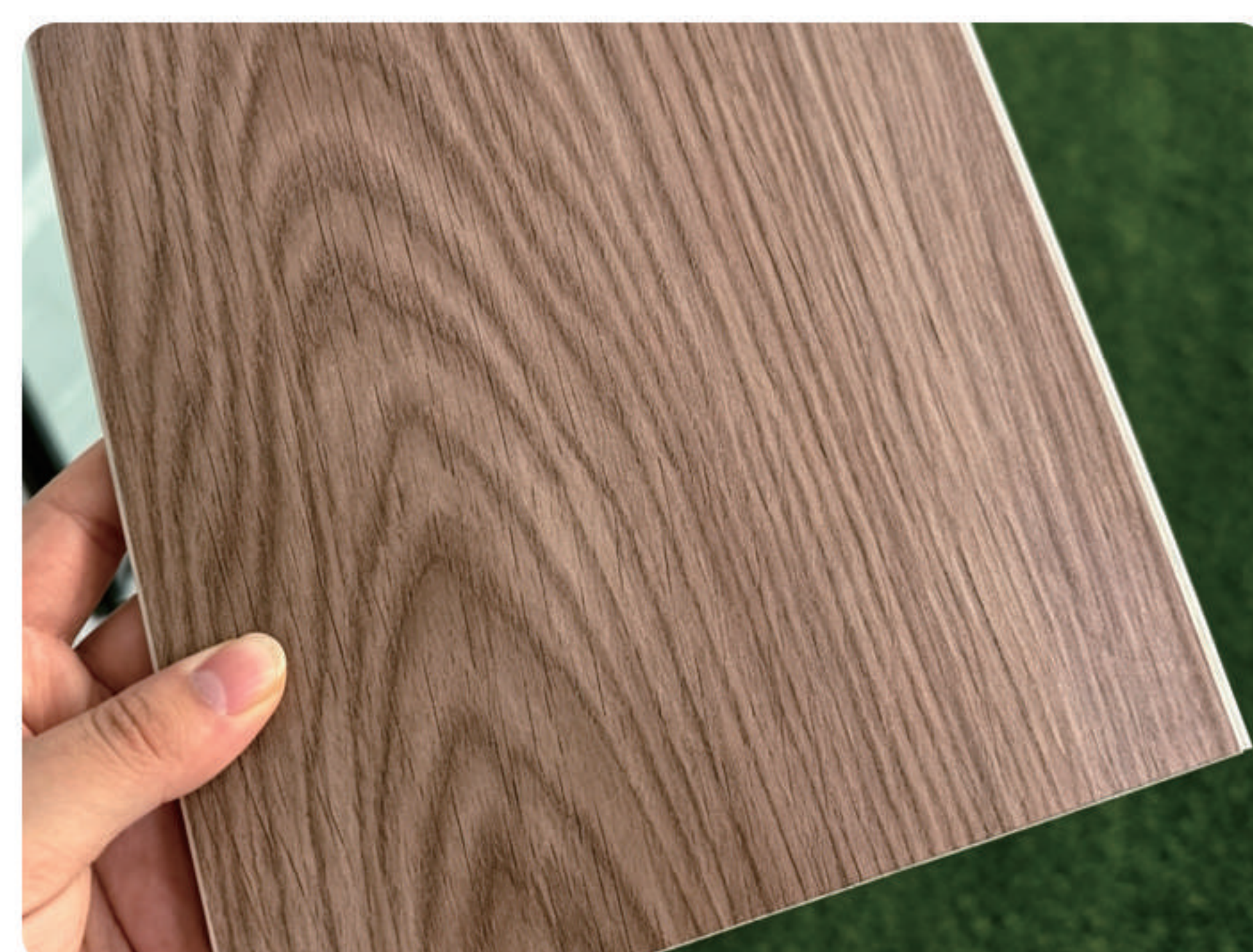
Bathroom



Electrical System



Water Piping



Flooring



Door

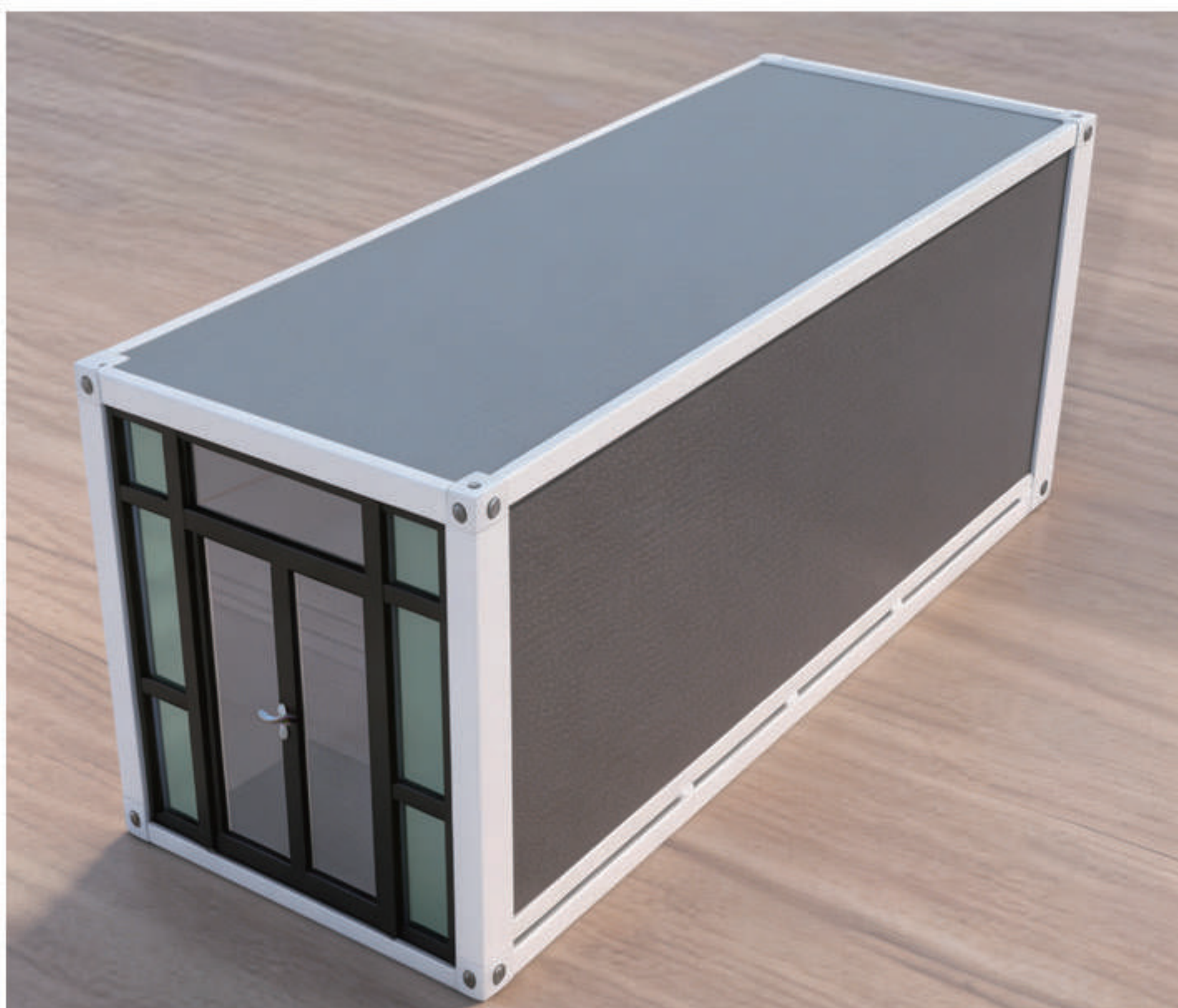


Window





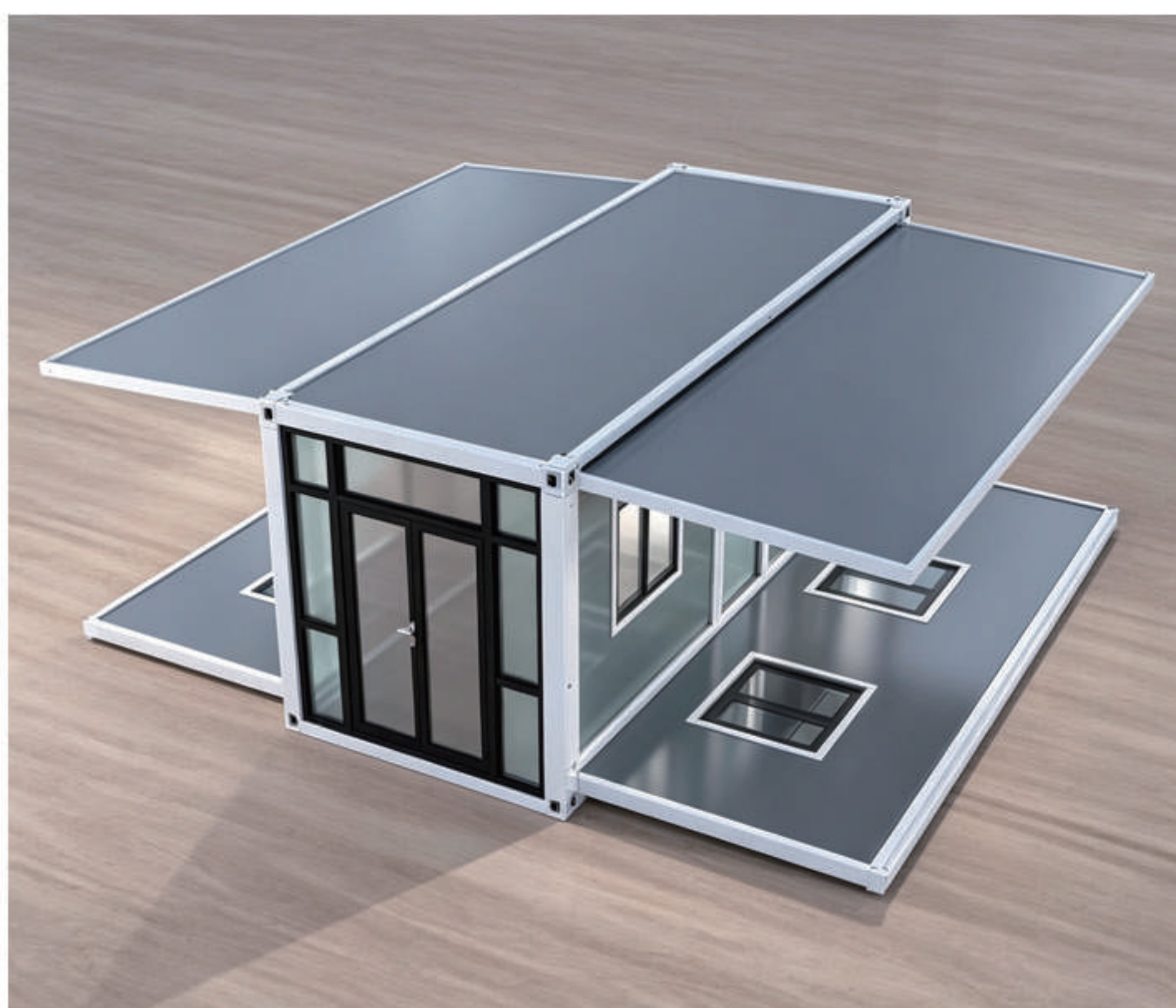
Installation & Deployment



1. Site Positioning



2. Raise the Roof



3. Unfold the Side Panels



4. Secure the Main Structure



5. Install Flexible Solar Panels



6. Install the Off-Grid Solar Air Conditioning System



Packaging & Container Loading

