



Smart Urban Networks

SUNS Co., Ltd.

Hybrid Home Solar System

Company Information

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Company Introduction

Founded in 2015, SUNS Co., Ltd. is a South Korea-based leader in smart city and ICT infrastructure, providing advanced ICT and surveillance solutions for national defense, as well as smart city solutions for local governments.

It operates in close partnership with its Myanmar local subsidiary, Sun Shine Yangon Co., Ltd., and has implemented solar power projects across Myanmar in collaboration with organizations such as UNDP, UNHCR, UNICEF, UNOPS, and NGOs like Save the Children and ZOA since 2024.

Building upon this extensive humanitarian and technical expertise, SUNS is currently deploying a Hybrid Home Solar Power Solution. This compact, portable, and modular micro-inverter and battery system provides reliable electricity for remote communities and humanitarian relief sites where grid access is absent.

Product Description

Hybrid Home Solar System

The Home Solar System UN-300W is a compact, modular micro-inverter and battery solution designed for remote areas and humanitarian relief sites where the grid network is unavailable.

Target Applications

- **Vaccine Refrigeration**
Reliable power for mobile and portable vaccine fridges
- **Emergency Power for Disaster Zones**
Immediate electricity for essential appliances and lighting
- **Off-Grid Household Power**
Small-scale electricity for remote, unpowered homes
- **Shelter Power Supply**
Independent emergency power for individual shelters in UN safe zones
- **Water Pump Activation**
Drives small water pumps to secure clean water anywhere
- **UN Field Personnel Support**
Essential charging for laptops, phones, and equipment in remote areas



Case 1. For a portable vaccine refrigerator



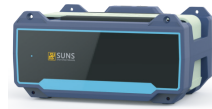
Case 2. For Areas in Need of Humanitarian Assistance

300W MPPT Module
HS Code 8504.40



Model Name	UN-MM300S
Port	[Solar] XT60 / DC Barrel (Communication) USB-A
Input	300W (5V ~ 28V, 10A)
Protection	OCP, OTP, UVP
Environment	Operating : -20 ~ 60°C Storage : -30 ~ 70°C
Dimension	201x165x87 / 0.8KG

400W Battery Module
HS Code 8507.60



Model Name	UN-BM300P
Battery Cell	Lithium-ion (10.8VDC x 40Ah)
No. Capacity	50Ah (Recommended)
Safety Features	OCP, OTP, OVP, UVP
Environment	Operating : -10 ~ 40°C Storage : -20 ~ 45°C (Short-term) -10 ~ 25°C (Long-term)
Dimension	201x159x112 / 3.0KG

300W DC Output Module
HS Code 8504.40



Model Name	UN-DO300P
Port	DC Barrel (12VDC, 1A) x 6 USB-A (5VDC, 1A) x 4 USB-C PD (5V~12V, 1A) x 2
Power	300W
Protection	OCP
Environment	Operating : -20 ~ 60°C Storage : -30 ~ 70°C
Dimension	201x161x87 / 0.6KG

300W AC Output Module
HS Code 8504.40



Model Name	UN-AO300P
AC Output	220V (50/60 Hz)
Port	Universal Socket x 1
Power	200W (220V x 1A)
Protection	OCP
Environment	Operating : -20 ~ 60°C Storage : -30 ~ 70°C
Dimension	201x161x87 / 0.7KG

* OCP (Over Current Protection) / OTP (Over Temperature Protection) / OVP (Over Voltage Protection) / UVP (Under Voltage Protection)

1. **6-Module Architecture:** MPPT, Battery, DC/AC Output (AC Input & Communication by 2027)
2. **Plug & Play Scalability:** Auto-recognized modules for standalone, combined, or stacked use
3. **Universal Compatibility:** Supports third-party 12V~24V batteries (Gel, Lithium, etc., Unmanaged)
4. **High Portability:** Lightweight system with detachable modules and a top handle
5. **IP54 Protection:** Certified dust and water resistance for harsh environments

Configuration Samples



Input : Solar / 12V DC
Output : AC / DC
Battery: 400W



Input : Solar / 12V DC
Output : DC
Battery: 400W



Input : Solar / 12V DC
Output : AC
Battery: 400W



Input : Solar / 12V DC
Output : AC / DC
Battery: 800W



Input : Solar / 12V DC
Output : AC / DC
Battery: 1,200W