

Sunhome Smart Balcony Energy System

Enjoying DIY Fun & Green Power



About Sunhome

Founded in 2013, SUNHOME is a technology brand in global smart residential energy sector, offering smart residential energy systems integrating photovoltaic, energy storage, EV charger, and energy management.

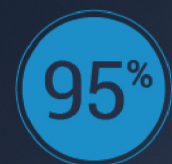
As a pioneer with over a decade of expertise in home energy field, we focus on full-stack self-developed power plant technology as our core innovation. This enables us to build a comprehensive service system covering solar power generation, smart energy storage, efficient charging, and energy management, empowering households worldwide to seamlessly embrace a green and smart energy lifestyle.

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Key Features of Sunshare Ray

The World's First Custom Balcony Solar System



Pre-assembled

One-man installation in 10 mins, no electrician or drilling required



Multi-scenario Applications

Compatible with various balcony types and further scenarios



Aesthetics Attitude

Full-black modules, modern and minimalist design



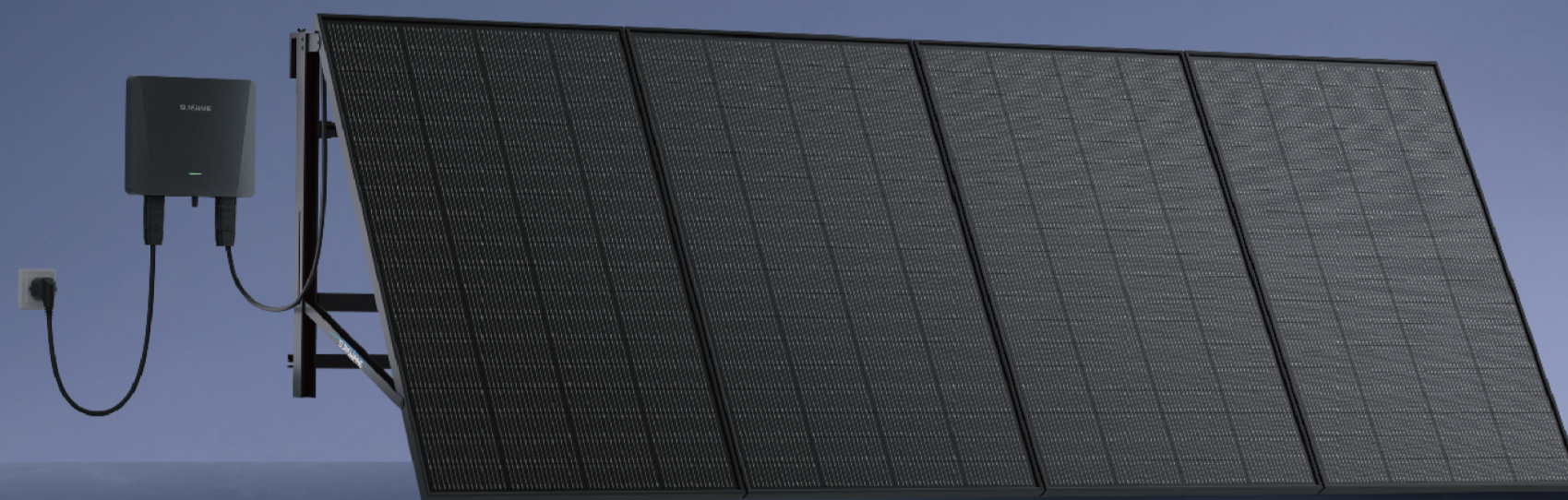
Safety & Reliability

Weather resistance (hail, severe typhoons), built-in safety strap



Smart & Friendly

Wi-Fi connection in 30 seconds, eco-friendly & user-friendly



Lightweight Solar Panels



One-handed carry
Lightweight & custom modules, one-handed carry



Full-black
Anti-glare matte surface



Cell Efficiency
N-type mono-facial modules



Snap frames for modules
Saving time during assembly

SPECIFICATIONS

Model	SR-M200-T64	SR-M285-T66
STC (1000W/m² 25°C AM 1.5)		
Maximum power (W)	200	285
Power Tolerance (W)	0~+5	0~+5
Cell Efficiency	≥25%	≥25%
Voltage at maximum power point (Vmp/V)	45.88	44.75
Current at maximum power point (Imp/A)	4.36	6.37
Open circuit voltage (Voc/V)	55.10	52.34
Short circuit current (Isc/A)	4.58	6.88
Temperature Ratings		
Nominal Operating Cell Temperature (NOCT) 45±2 °C 	System Integration Characteristics Spec.	
	Maximum system voltage	1000Vdc
	Design load	2400Pa
	Hail impact test	25mm 23m/s
	Operational temperature	-40°C~+85°C
Mechanical Properties		
Module Size (H*W*D)	1236*766*30mm	1166*1134*30mm
Module Weight	7.50kg	9.70kg
Front glass	1.6mm high transmission embossed glass	
Cell type	Monocrystalline N-Topcon	
Back sheet	Black	
Frame	aluminum alloy frame	
Types of cables	6mm² solar cable	
Certificate		
IEC 61215, IEC 61730, CE,TUV		

Drilling Free Solar Mounting

90% Balcony Types

Compatible with more than 90% balcony types and more scenarios

95%

Highly pre-assembled

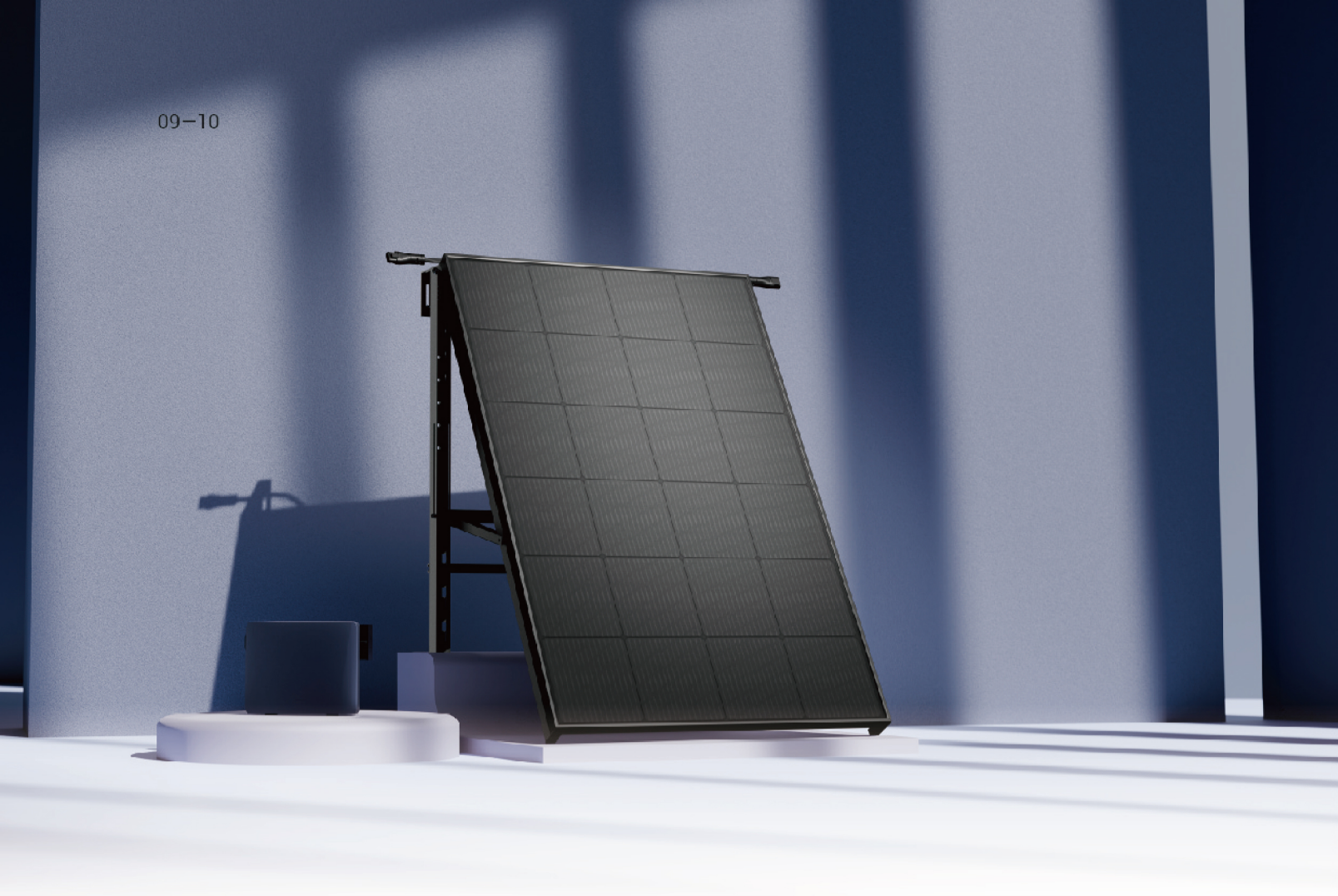
0°~30°

Angle-adjustable & Foldable design

SPECIFICATIONS

Material Type	6063-T6 aluminum alloy
Surface Treatment	Powder coating
Installation Mode	Hanging type
Design load	2400Pa
Product Weight	≤5kg
Color	Black
Thickness	≥1.5mm
Angle Adjustment Range	0°-30°(Angle adjustable after installation, optional)
Application scenarios	Metal balustrade/ Metal balustrade with baffle/ Solid wall balustrade





Smart Micro-Inverter



IP67

One-step “snap to lock” connector design

The modern appearance fits interior design styles

Less than 30s

One-click Wi-Fi connecting

Real-time monitoring, health diagnosis and fault warning



PRODUCT SPECIFICATIONS

INPUT (DC)		OUTPUT (AC)	
Recommended Max PV Power (Wp)	1200	Rated AC Output Power (Wp)	800
Max DC Open Circuit Voltage (Vdc)	60	Nominal Power Grid Voltage (Vac)	230
MPPT Tracking Range (Vdc)	22-55	Allowable Power Grid Voltage (Vac)	184~253
		Nominal Frequency (Hz)	50/60
		Rated Output Current (Aac)	3.48

SYSTEM SPEC	
Over/Under Voltage Protection	Yes
Over/Under Frequency Protection	Yes
Anti-Islanding Protection	Yes
Over Current Protection	Yes
Reverse DC Polarity Protection	Yes
Overload Protection	Yes
Protection Degree	IP67
Operating Temperature	-40°C~+65°C
Communications (Wifi)	Frequency: 2.4 GHz Standards: IEEE 802.11/b/g/n
Dimension (W*H*D)	242*200*33mm
Product Weight	3kg
Product Safety Compliance	IEC/EN 62109-1 IEC/EN 62109-2
Grid Code Compliance* (Refer to the label for the detailed grid code compliance)	VDE-AR-N 4105
Isolation Design	High Frequency Transformers
Cooling	Natural Convection

POWER CORD	
Cable Length	5m/10m optional
Plug Type	Schuko