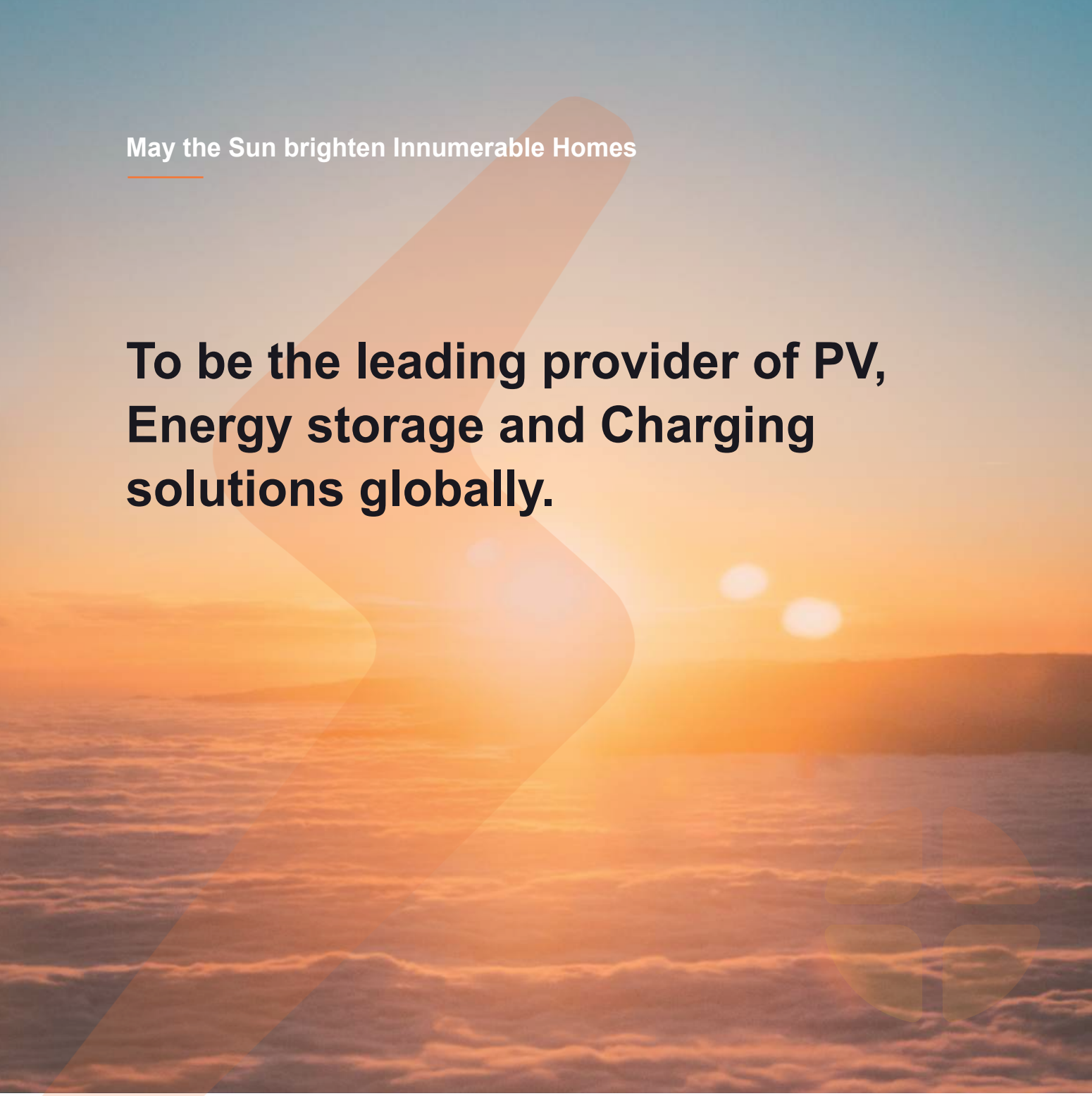


May the Sun brighten Innumerable Homes

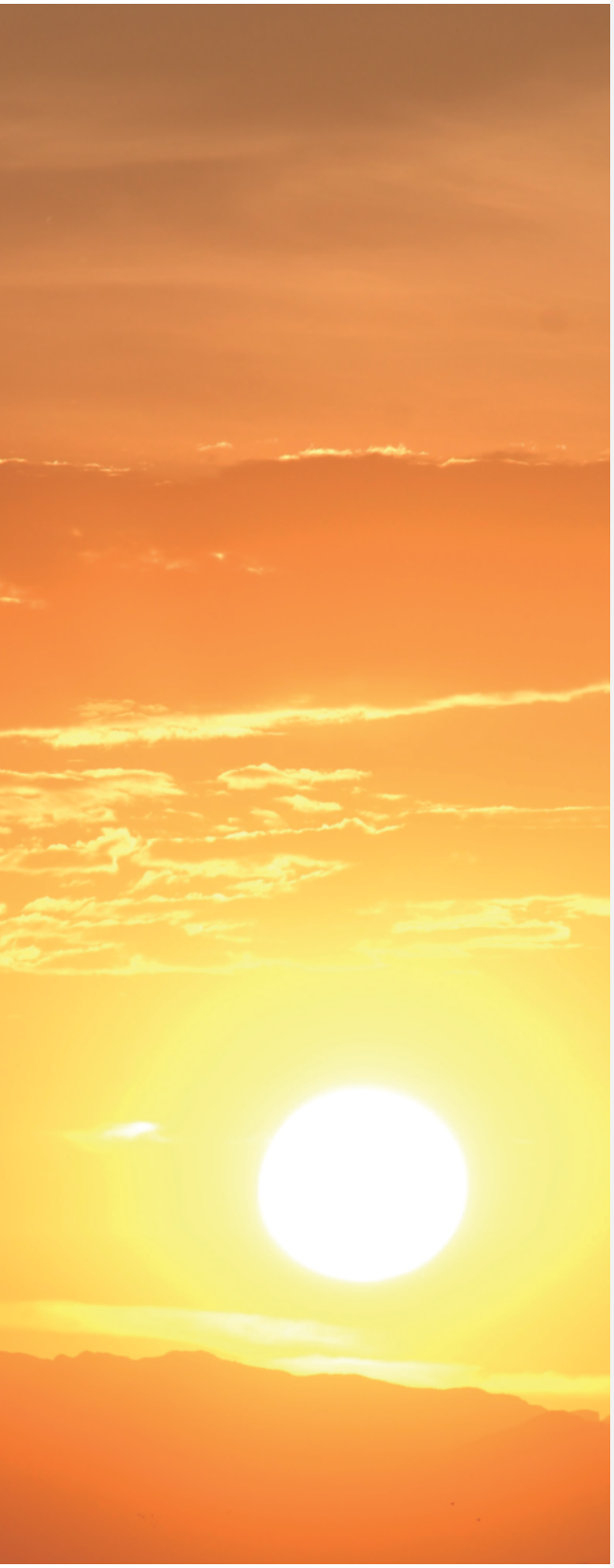
To be the leading provider of PV, Energy storage and Charging solutions globally.

Sunplus NEW ENERGY TECH

String inverter:
Single phase (1-10kw), three phase (3-60kw)

Hybrid storage inverter:
Single phase (1-6kw), three phase (3-20kw)

AC coupled inverter:
Single phase (1-4.6kw)



About us

Sunplus, located in Shanghai, the economic, trade, shipping, science and technology center of China, is mainly engaged in the R&D, production, marketing and sales of three categories of new energy products-PSC. The typical products are PV inverter, storage inverter, lithium battery pack and EV charger that are widely applied to household, industrial and commercial new energy systems. Sunplus production base covers an area of 36,000 square meters and has a yearly production capacity of 1GW. The production line is equipped with large-scale advanced automation equipments to ensure the high quality, high standard and high stability of the products.

Sunplus market orientation is global, and it has established branches and overseas warehouses in China, Europe, the Middle East and other countries to provide localized, professional and efficient product supply and service for the global market. Sunplus has a professional organization with strong innovation ability, and a young and elite management team. It has been deeply involved in the field of new energy for many years, laying the foundation for the rapid development. Sunplus is committed to becoming a practitioner of green energy. By developing green, safe and reliable clean and renewable energy, it improves people's dependence on non-clean energy, and also contributes to the great vision " To be the leading provider of PV, Energy Storage and Charging solutions globally".

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String Inverter
Hybrid Storage Inverter
AC Coupled Inverter

Single Phase

Residential HNS series
HNS-TL1
1-3 kW



Residential HNS series
HNS-TL
3-6 kW



Residential HNS series
HNS-TL
7-10 kW



Three Phase

Commercial & Power Plants BNT series
BNT 3-25kW



Commercial & Power Plants BNT series
BNT 30-60kW



Hybrid Inverter

Single Phase Hybrid Inverter
1-6kW for Low Voltage Battery



AC Coupled Inverter
1-4.6kW



Three phase Hybrid Inverter
3-20kW



Residential HNS series

HNS-TL 7-10 kW

The Afore HNS Series Single-phase inverters are designed for residential PV system applications, rating from 7kW to 10kW. All models have unibody housings with aluminum structure which is anodized, increasing durability and effectively prevents corrosion. Equipped with external inductors, the unibody housings can ensure efficient heat dissipation, which significantly improves the reliability and extends the life of the inverters.

The inverter menu is activated by sensor touch buttons. Communication implements are via the Wi-Fi module (can be changed to Ethernet / GPRS). Check the system status anytime and anywhere via online portal or APP.

ANTI-FLOW
Anti-Feed-in Function

PV OVERSIZE
Max. 1.5 time PV Oversize Capacity

PROTECTION
Multiple intelligent Protections

SMART
Smart IV Curve Scanning

Wi-Fi
Wi-Fi Standard
Ethernet/GPRS Optional

CONFIGURATION
Quick & Easy Config. via Wi-Fi

MODBUS
MODBUS Communication Ready



- MPPT efficiency > 99.9%
- Two MPPT design
- Active and reactive power compensation, adjust power factor
- No fans design
- Quick and easy installation
- High-quality power output and low THDI

PV Input Data	HNS7000TL	HNS8000TL	HNS9000TL	HNS10000TL
Max. DC Power (W)	9800	11200	12600	14000
Max. DC Voltage (V)	600			
MPPT Voltage Range (V)	70-550			
MPPT Full Power Voltage Range (V)	220-550			
Rated Input Voltage (V)	360			
Start-up Voltage (V)	70			
Max. Input Current (A)	14+26		26+26	
Max. Short Current (A)	18+35		35+35	
No. of MPP Tracker / No. of PV String	2/3		2/4	
Input Connector Type	MC4			

AC Output Data	HNS7000TL	HNS8000TL	HNS9000TL	HNS10000TL
Max. Output Power (W)	7700	8800	9900	11000
Nominal Output Power (W)	7000	8000	9000	10000
Max. Output Current (A)	33.6	38.3	45	50
Nominal Output Voltage (V)	L/N/PE, 220Vac, 230Vac, 240Vac			
Grid Voltage Range	180Vac-276Vac (According to local standard)			
Nominal Output Frequency (Hz)	50/60			
Grid Frequency Range	45-55Hz/54-66Hz (According to local standard)			
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)			
Output Current THD	<3%			

Efficiency	HNS7000TL	HNS8000TL	HNS9000TL	HNS10000TL
Max. Efficiency	98.20%	98.20%	98.32%	98.40%
Euro Efficiency	97.95%	98.00%	98.00%	98.10%

Protection	HNS7000TL	HNS8000TL	HNS9000TL	HNS10000TL
PV Reverse Polarity Protection	YES			
PV Insulation Resistance Detection	YES			
AC Short Circuit Protection	YES			
AC Over Current Protection	YES			
AC Over Voltage Protection	YES			
Anti-Islanding Protection	YES			
Residual Current Detection	YES			
Over Temperature Protection	YES			
Integrated DC switch	YES			
Surge Protection	Integrated (TypeIII)			
Smart IV Curve Scaning	YES			
Quick Arc Fault Circuit Interruption	Optional			

General Data	HNS7000TL	HNS8000TL	HNS9000TL	HNS10000TL
Dimensions (H x W x D, mm)	510 x 370 x 167			
Weight (kg)	17		19	
Protection Degree	IP65			
Enclosure Material	Aluminum			
Ambient Temperature Range (°C)	-25 to 60			
Humidity Range	0-100%			
Topology	Transformerless			
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)			
Cooling Concept	Convection			
Noise Emission (db)	<40			
Night Power Consumption (W)	<1			
Max. Operation Altitude (m)	4000			

Certifications & Standards	HNS7000TL	HNS8000TL	HNS9000TL	HNS10000TL
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12			
Safety Standard	IEC 60068, UL1741, EN62109			
Grid-connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727			