



FusionSolar Residential Smart PV Solution



ABOUT FUSIONSOLAR



695

Billion kWh
Green Power
Generated



330

Million Tons of
CO₂ Emissions
Reduced



451

Million Equivalent
Trees Planted



160+

Global Technical
Support and Spare
Parts Centers

3

Technical
Support
Centers

9

Spare Parts
Operation
Centers

16

Spare Parts
Repair
Centers

130+

National Spare
Parts Logistics
Centers



1000+

Global Partners

300+

Sales
Partners

70+

Service
Partners

600+

Certified
Installers



17

Global Research
Centers

5

Competence
Centers

12

R&D Centers

10%+

of Revenue on
R&D

*Based on data available as of 2022

Leading String
Inverters into the
Mainstream

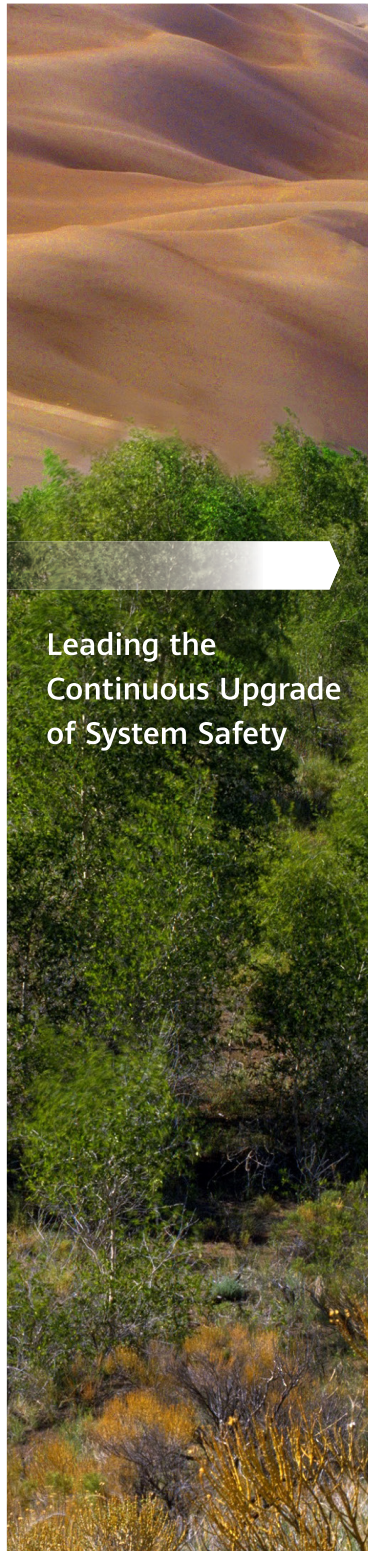
LEADING INNOVATIONS FOR THE MOST VALUABLE CREATIONS



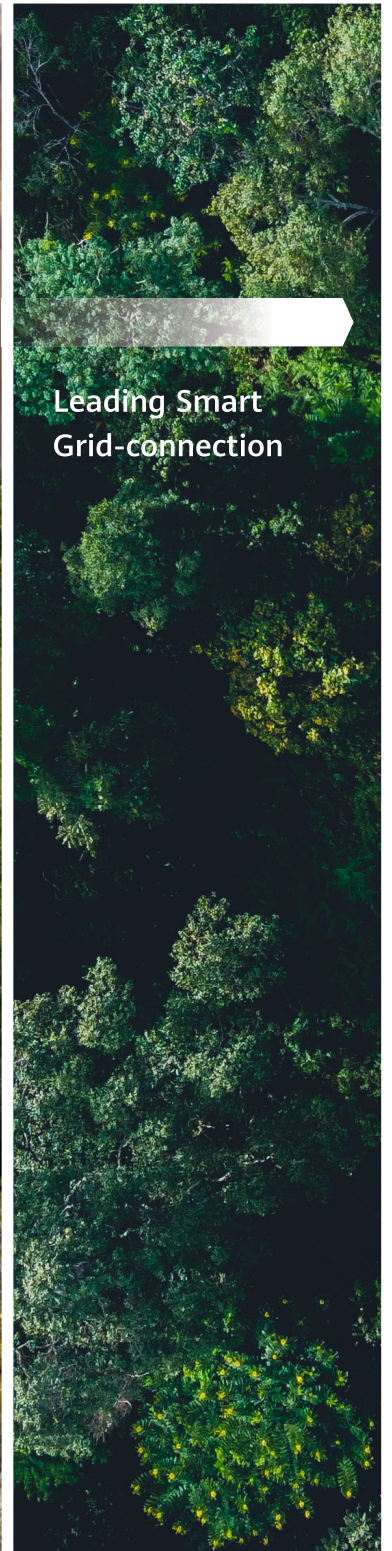
Leading Energy
Storage System
Architecture
Innovation



Leading Digital
and Intelligent
Upgrade



Leading the
Continuous Upgrade
of System Safety



Leading Smart
Grid-connection

A HOME THAT ALWAYS SHINES

Our Mission

FusionSolar Residential Smart PV provides a one-fits-all solution from power generation, storage, to charging and power consumption. We always maximize efficiency and safety to power more households for a better, smarter, and more sustainable future

By the end of 2022, FusionSolar has provided clean energy for **2.7** million homes in over **170** countries





FUSIONSOLAR



MAKE SMART PV ACCESSIBLE TO EVERY HOME

For Artists

“ It's better to add a touch of green to the earth than to the canvas. ”



For Professionals

“ Green is the new black. ”



For Homeowners

“ You deserve the visibility and control of your energy on the go. ”





For the Seniors

“ I may be gray, but my power is green. ”



For Young People

“ Green energy gets you energized. ”



For Children

“ Future generations deserve a greener planet. ”





C O N T E N T S

01

SOLUTION
VALUE

P01

02

PRODUCT
COLLECTION

P19

03

SERVICE

P47

04

CASE
STUDY

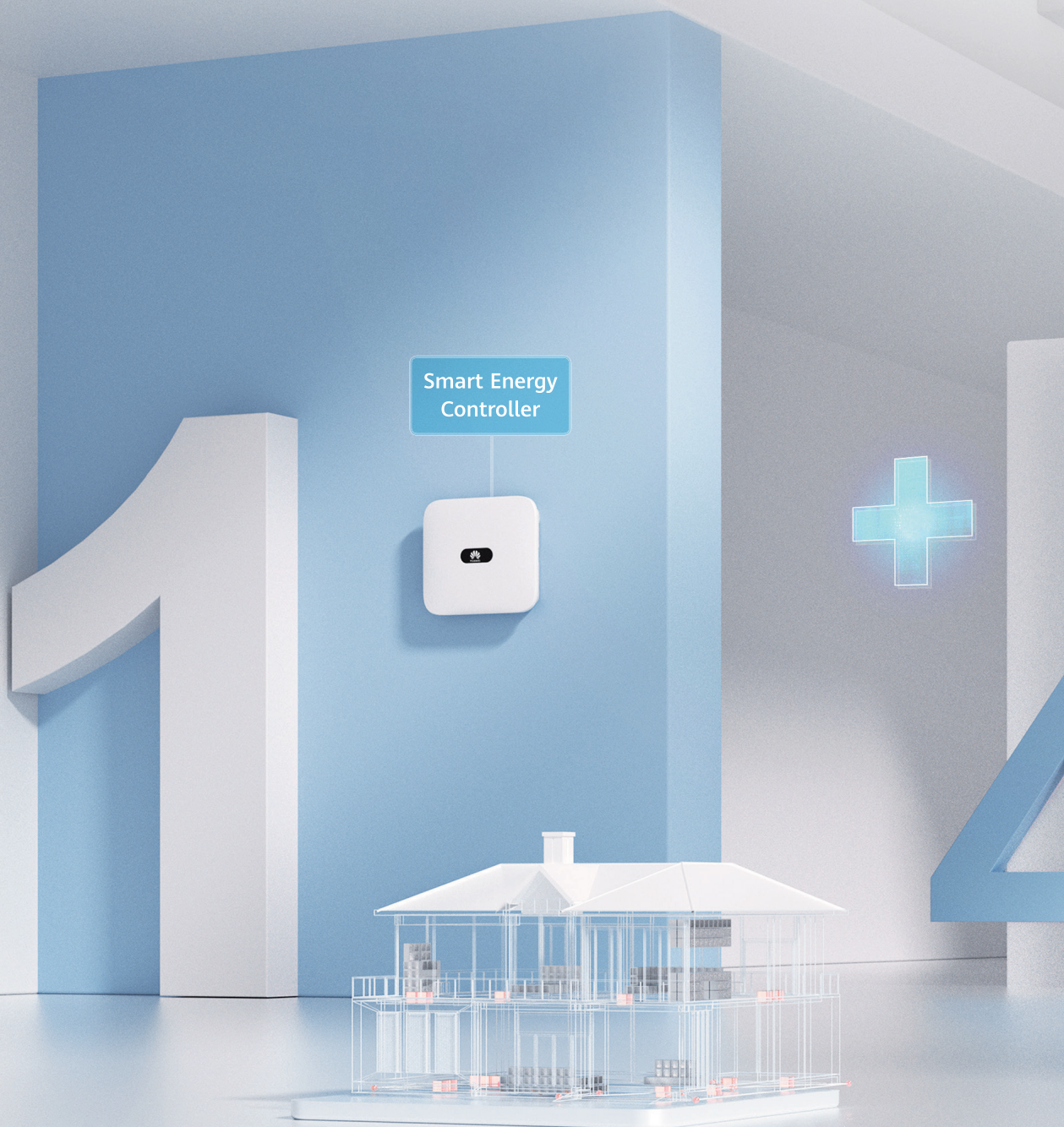
P53

01

SOLUTION VALUE



FUSIONSOLAR RESIDENTIAL ONE-FITS-ALL SOLUTION



The whole chain of home energy management including green power generation, storage, charging and power consumption

Smart PV
Management System



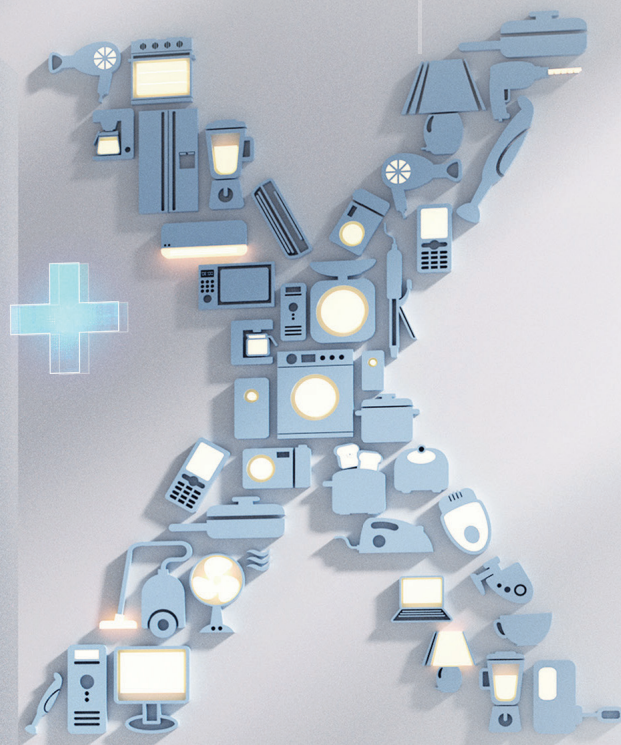
Smart
Charger

Smart Module
Controller



Smart
String ESS

Residential
Energy Ecosystem




Optimal
Electricity Cost


Active
Safety


Better
Experience



FUSIONSOLAR RESIDENTIAL ONE-FITS-ALL SOLUTION

One Supplier

Easier purchase & storage
management for system
products

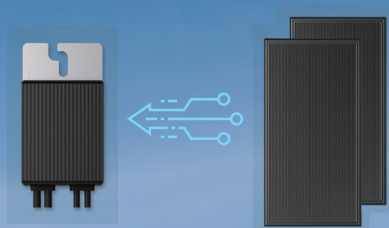
One Solution

Suitable for all scenarios,
with less training required

One Service Window

One contact for pre-sales
& after-sales services





One optimizer for majority of PV modules in the market



One inverter for both on-grid and off-grid operation (via BackupBox)



One ESS for both single-phase and three-phase residential inverters



17.92
1

0.25 1-1-1	0.25 1-1-2	0.25 1-1-3	0.25 1-1-4
0.25 1-2-1	0.25 1-2-2	0.25 1-2-3	0.25 1-2-4

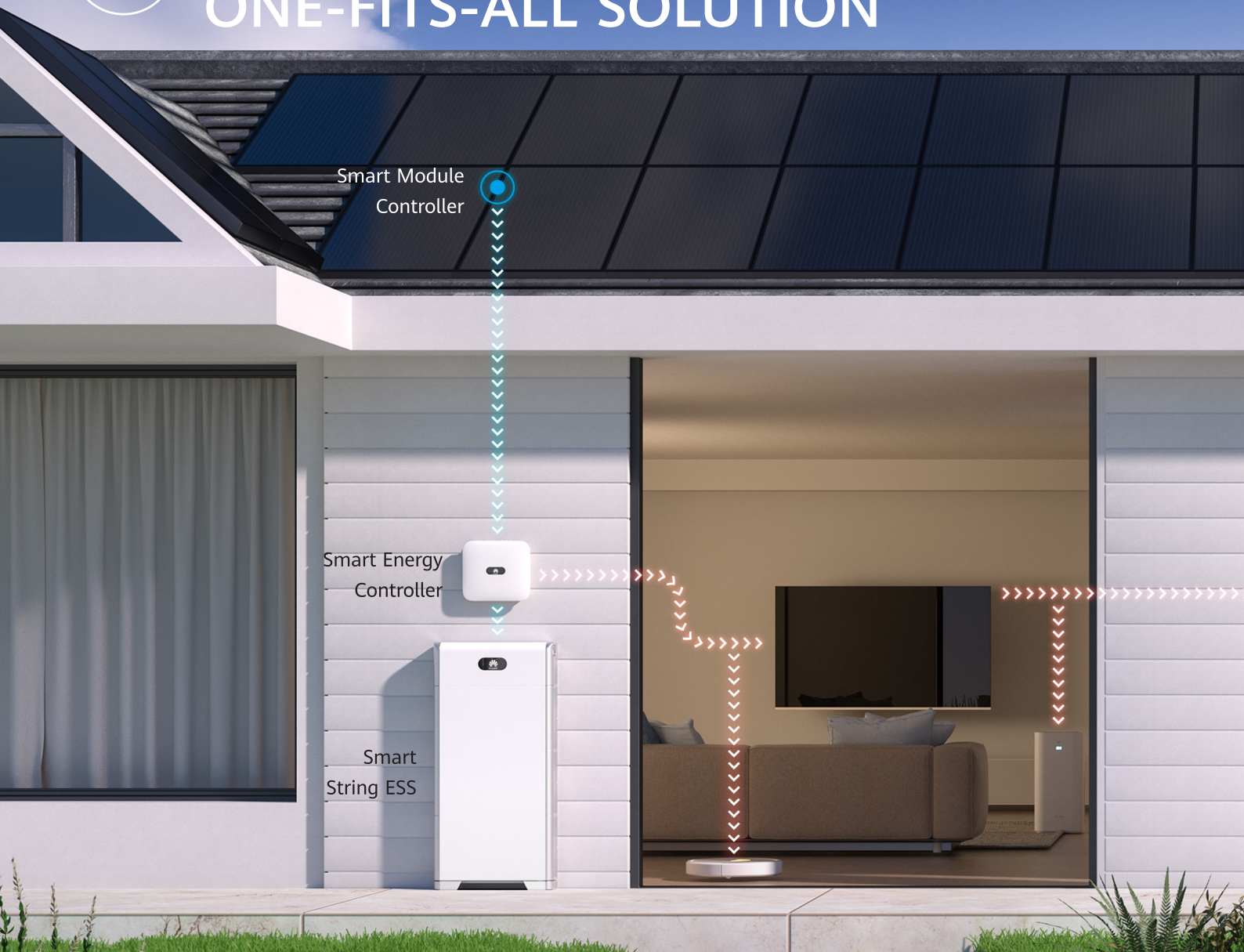


One app for all functions

*The data above is for reference only



FUSIONSOLAR RESIDENTIAL ONE-FITS-ALL SOLUTION



Smart Energy Controller



SUN2000-2/3/3.68/4/4.6/5/6KTL-L1
(Single-Phase)



SUN2000-3/4/5/6/8/10KTL-M1
(Three-Phase)



SUN2000-12/15/17/20/25KTL-M5
(Three-Phase)

Smart String ESS



LUNA2000-
5/10/15-S0



Power-M-
5/10/15/20/25/30

*Available in specific regions only



Smart Charger



FusionSolar App

Smart Module Controller



SUN2000-450W-P2
SUN2000-600W-P



MERC-1100W-P
MERC-1300W-P

Smart Charger



SCharger-7KS-S0
(Single-Phase)
SCharger-22KT-S0
(Three-Phase)

*Available in specific regions only

FusionSolar MS & App





OPTIMAL ELECTRICITY COST

Many factors can cause power output loss, which reduces the system benefit and increase the system payback time. The FusionSolar Residential Smart PV Solution ensures the best system performance and generates more usable energy

More Installed Capacity



Optimizers can connect PV modules facing different directions to the same PV string

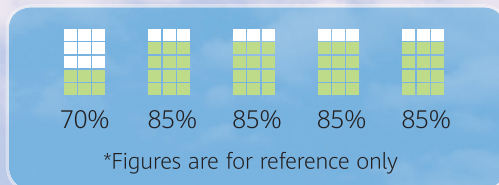
PV modules can be installed in the shaded area



More Energy Yields, Up to 30%

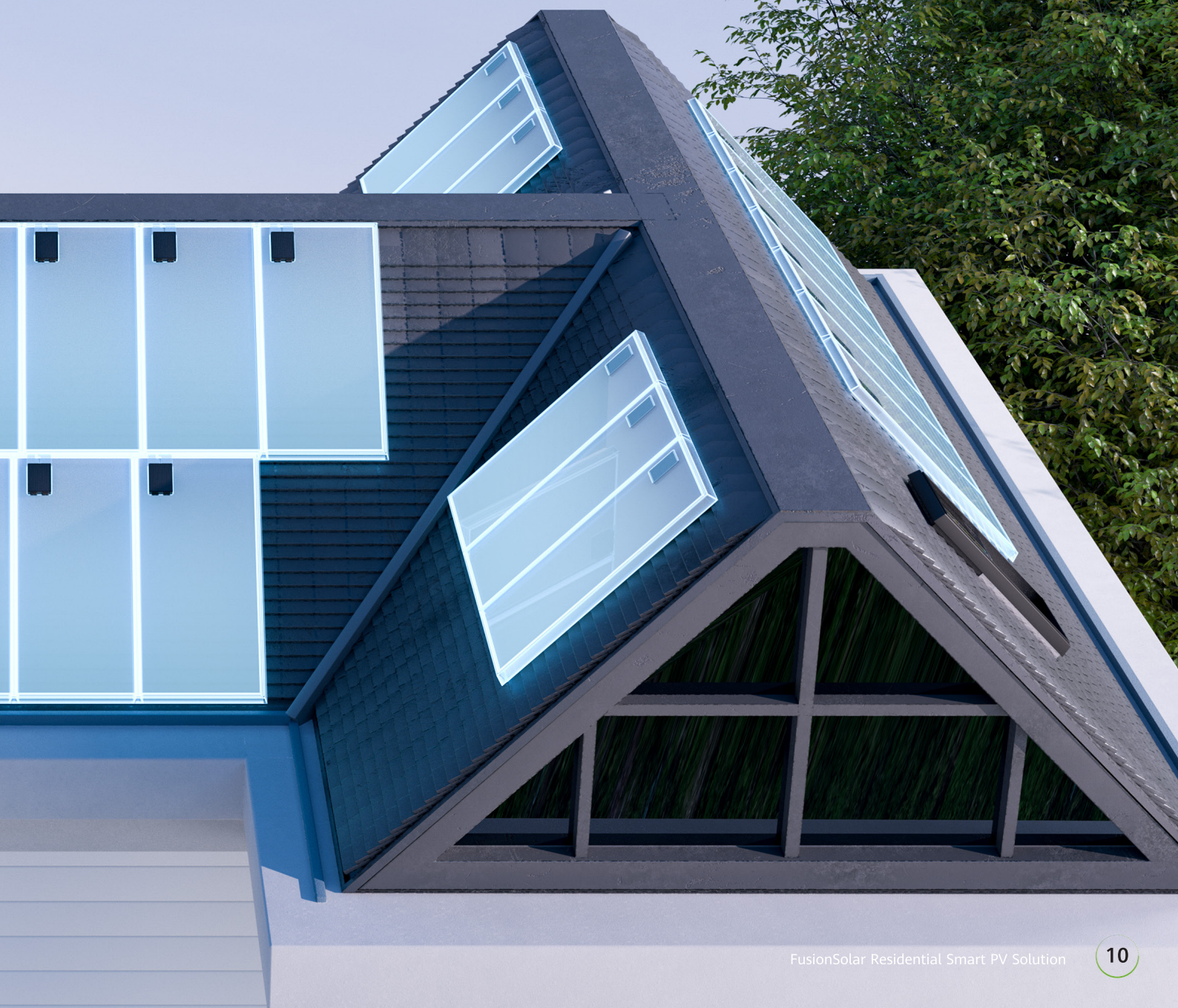
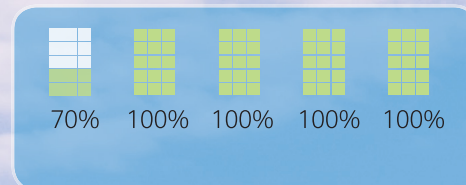
Without Optimizer

The output power of a PV string is limited by the PV module with the lowest output current



With Optimizer

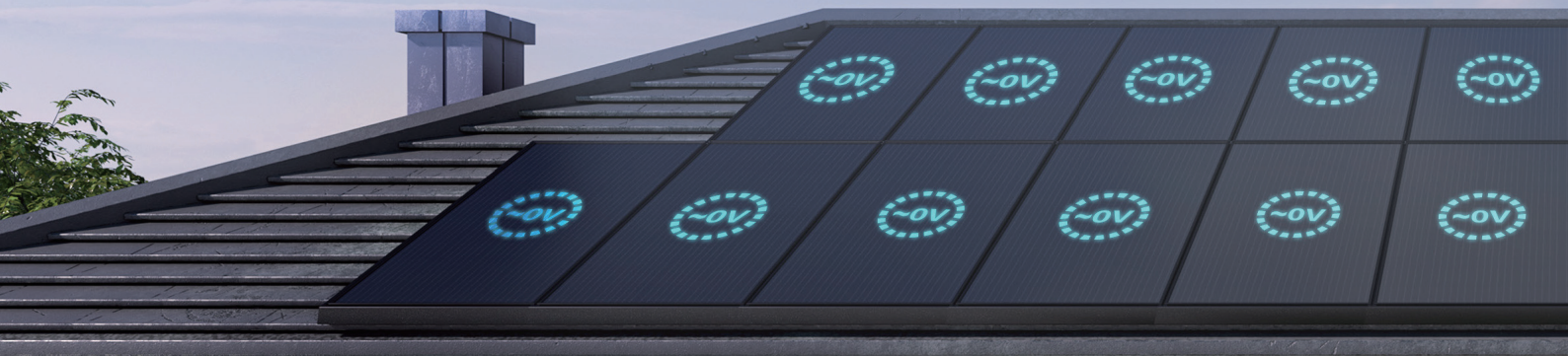
All PV modules can achieve their maximum output power



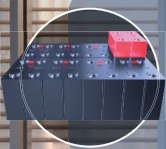


ACTIVE SAFETY

System safety is always the priority to concern. FusionSolar Residential Smart PV Solution meets the highest safety standard to ensure safety through advanced technologies used in the optimizer, inverter and ESS

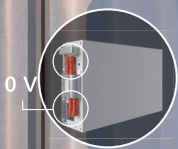


Safety under rooftop ESS Modular+ Safety



Cell level protection

- LFP from top suppliers
- Cell level management



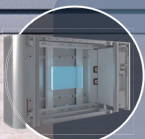
Electrical protection

- Overcharging, over current, over temperature protections
- External short-circuit protection



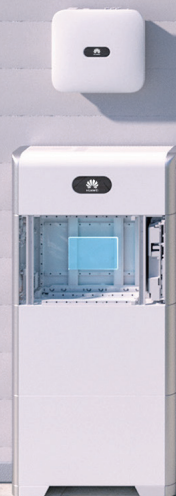
Structural protection

- High-strength high-melting-point cabinet
- IP66 class level protection



Emergency protection

- Built-in intelligent Fire Suppression Kit for each battery pack
- Quickly eliminate safety risks in 15s



Safety above rooftop



Module-level Rapid Shutdown

Eliminate high DC voltage risk and protect the personal and property by optimizers



AI Boost AFCI

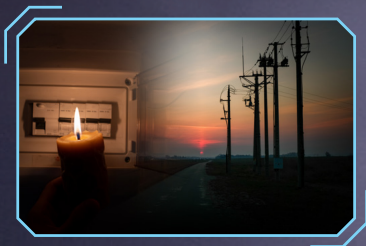
Accurate arc fault detection via local neural network algorithm
Rapid inverter shutdown in 0.5s for arc fault protection





ENJOY EVERY MOMENT WITHOUT WORRYING POWER BLACKOUT

FusionSolar Residential Smart PV Solution provides stable and reliable power and supports on-grid/off-grid switchover



Frequent blackouts

The grid is unstable and blackouts are frequent



Mains power inaccessible

Remote areas not covered by power grids



Power backup

Power load is heavy and energy independence is required



Flexible capacity expansion

Modular design to scale as needed



Worry-free of outages

Provide reliable backup power during outages





24/7 OVERALL MANAGEMENT

FusionSolar Management System provides an overall control of the whole system, allowing you to monitor the realtime power generation, consumption, and the states of the devices anywhere, anytime you want



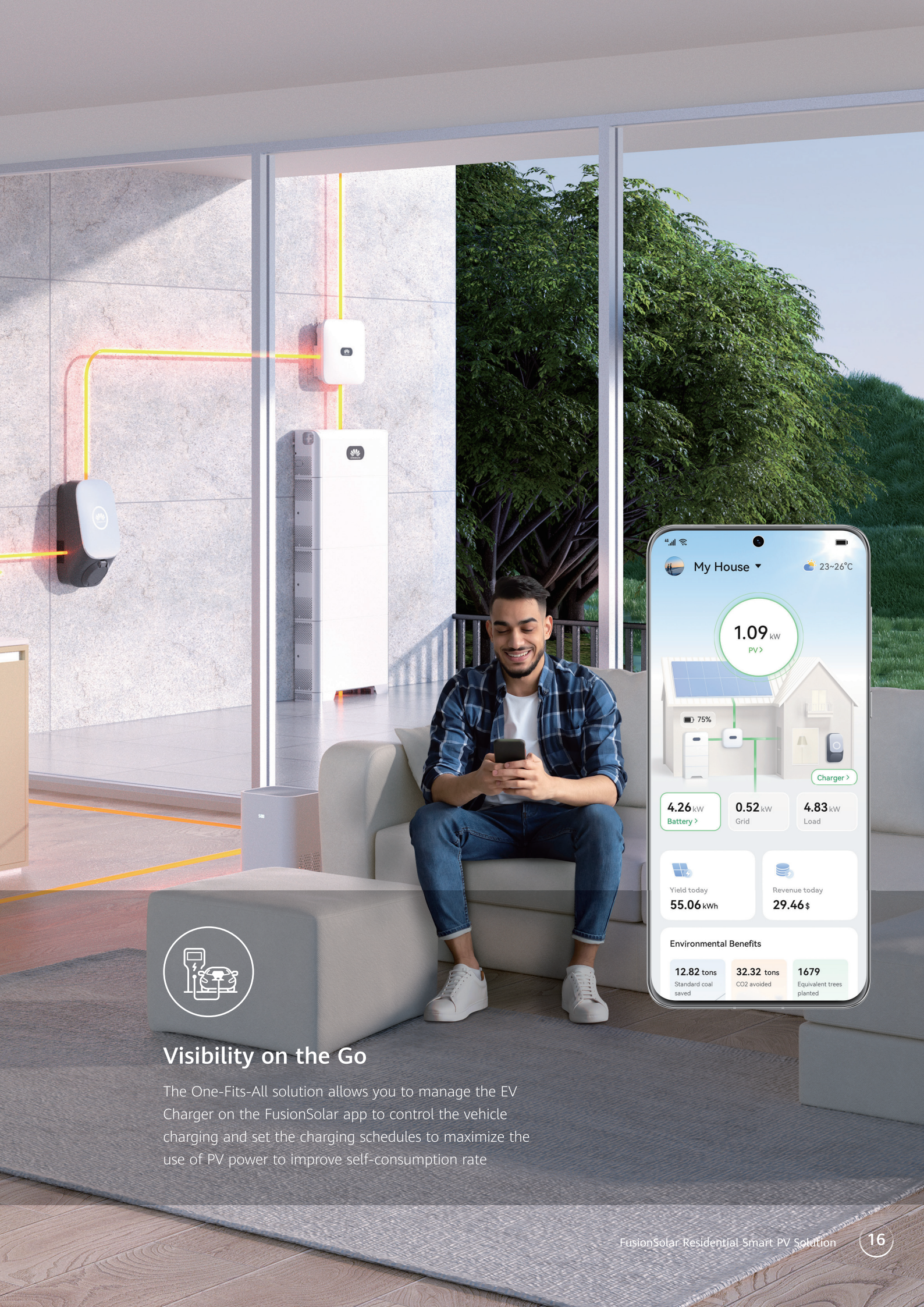
Energy Transparency

FusionSolar Management System monitors system performance and brings full transparency of the energy consumption and production



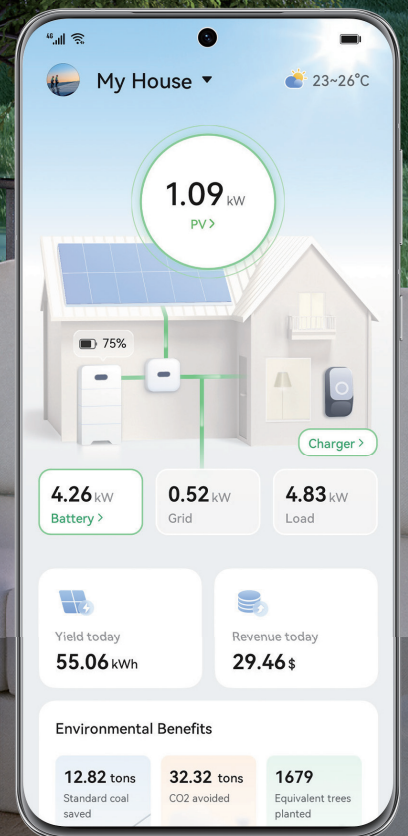
Overall Control

Control all the devices in the system, including the inverter, ESS, modules, EV charger, and monitor the operation state



Visibility on the Go

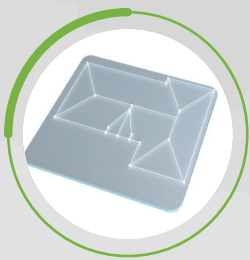
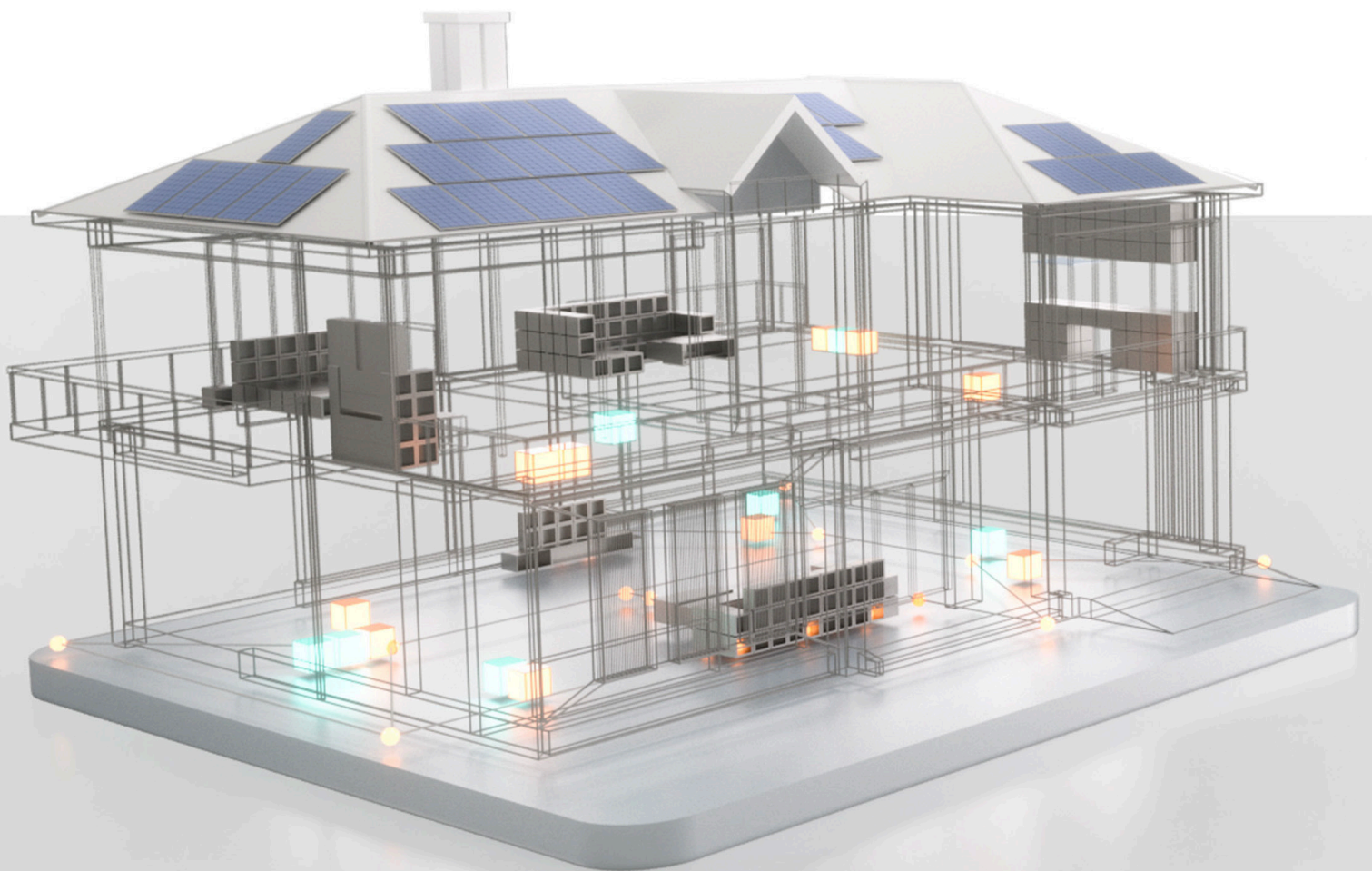
The One-Fits-All solution allows you to manage the EV Charger on the FusionSolar app to control the vehicle charging and set the charging schedules to maximize the use of PV power to improve self-consumption rate





EASIER AND MORE PROFESSIONAL DESIGN

Smart Design 2.0, an online tool that allows installers to create a PV system with the 3D modeling function to provide better experience and support business success



Basic Info



Load



3D Modeling



Layout



Automatic module layout & electrical connection



Multi-scheme comparison to achieve optimal design



Vivid 3D site report for higher satisfaction



Electrical Diagram



Financial Analysis



Report

02

PRODUCT COLLECTION

SMART ENERGY CONTROLLER



Active Safety
AFCI Active Arcing
Protection



Higher Yields
Up to 30% More Energy
with Optimizer



2X Power Battery Ready
5 kW AC Output plus
5 kW Battery Charge

SUN2000-2/3/3.68/4/4.6/5/6KTL-L1 Technical Specification

Technical Specification	SUN2000 -2KTL-L1	SUN2000 -3KTL-L1	SUN2000 -3.68KTL-L1	SUN2000 -4KTL-L1	SUN2000 -4.6KTL-L1	SUN2000 -5KTL-L1	SUN2000 -6KTL-L11
Efficiency							
Max. efficiency	98.2%	98.3%	98.4%	98.4%	98.4%	98.4%	98.4%
European weighted efficiency	96.7%	97.3%	97.3%	97.5%	97.7%	97.8%	97.8%
Input (PV)							
Recommended max. PV power ¹	3,000 Wp	4,500 Wp	5,520 Wp	6,000 Wp	6,900 Wp	7,500 Wp	9,000 Wp
Max. input voltage	600 V						
Startup voltage	100 V						
MPPT operating voltage range	90-560 V						
Rated input voltage	360 V						
Max. input current per MPPT	12.5 A						
Max. short-circuit current	18 A						
Number of MPP trackers	2						
Max. inputs per MPP tracker	1						
Input (DC Battery)							
Compatible battery	HUAWEI Smart ESS Battery 5kWh-30kWh ¹						
Operating voltage range	350-560 V DC						
Max. operating current	15 A						
Max. charge power	5,000 W ²						
Max. discharge power	2,200 W	3,300 W	3,680 W	4,400 W	4,600 W	5,000 W	5,000 W
Output (On Grid)							
Grid connection	Single-phase						
Rated output power	2,000 W	3,000 W	3,680 W	4,000 W	4,600 W	5,000 W	6,000 W
Max. apparent power	2,200 VA	3,300 W	3,680 W	4,400 VA	5,000 VA	5,500 W	6,000 VA
Rated output voltage	220 V AC/230 V AC/240 V AC						
Rated AC grid frequency	50 Hz/60 Hz						
Max. output current	10 A	15 A	16 A	20 A	23 A	25 A	27.3 A
Adjustable power factor	0.8 leading ... 0.8 lagging						
Max. total harmonic distortion	≤ 3%						
Backup power output	Yes (via BackupBox-5000 ¹)						
Protection Feature							
Anti-islanding protection	Yes						
DC reverse polarity protection	Yes						
Insulation monitoring	Yes						
DC surge protection	Yes, compatible with TYPE II protection class according to EN/IEC 61643-11						
AC surge protection	Yes, compatible with TYPE II protection class according to EN/IEC 61643-11						
Residual current monitoring	Yes						
AC overcurrent protection	Yes						
AC short-circuit protection	Yes						
AC overvoltage protection	Yes						
Over-heat protection	Yes						
Arc fault protection	Yes						
Battery charging from grid	Yes						
General Specification							
Operating temperature range	-25°C to +60°C (Derating above 45°C @ Rated output power)						
Relative operating humidity	0%-100% RH						
Operating altitude	0-4,000 m (Derating above 2,000 m)						
Cooling	Natural convection						
Display	LED indicators; integrated WLAN + FusionSolar app						
Communication	RS485, WLAN via inverter built-in WLAN module, Ethernet via Smart Dongle-WLAN-FE (Optional); 4G/3G/2G via Smart Dongle-4G (Optional)						
Weight (incl. mounting brackets)	12.0 kg (26.5 lb)						
Dimensions (incl. mounting brackets)	365 mm x 365 mm x 156 mm (14.4 in. x 14.4 in. x 6.1 in.)						
IP rating	IP65						
Nighttime power	< 2.5 W						
Optimizer Compatibility							
DC MBUS compatible optimizer	SUN2000-450W-P2, SUN2000-600W-P						
Standards Compliance (More Available Upon Request)							
Safety	EN/IEC 62109-1, EN/IEC 62109-2						
Grid connection standards	G98, G99, EN 50549-1, CEI 0-21, VDE-AR-N-4105, AS 4777.2, C10/11, ABNT, UTE C15-712, RD 1699, TOR D4, IEC61727, IEC62116						

*1 The inverter max input PV power is 10,000 Wp when long strings are designed and fully connected with optimizers.

*2 2,500 W @ 5kWh HUAWEI ESS battery

SMART ENERGY CONTROLLER



Active Safety
AFCI Active Arcing
Protection



Higher Yields
Up to 30% More Energy
with Optimizer ¹



Battery Ready
Plug & Play Battery
Interface ²

SUN2000-3/4/5/6/8/10KTL-M1 (High Current Version) Technical Specification

Technical Specification	SUN2000 -3KTL-M1	SUN2000 -4KTL-M1	SUN2000 -5KTL-M1	SUN2000 -6KTL-M1	SUN2000 -8KTL-M1	SUN2000 -10KTL-M1
Efficiency						
Max. efficiency	98.2%	98.3%	98.4%	98.6%	98.6%	98.6%
European weighted efficiency	96.7%	97.1%	97.5%	97.7%	98.0%	98.1%
Input (PV)						
Recommended max. PV power ¹	4,500 Wp	6,000 Wp	7,500 Wp	9,000 Wp	12,000 Wp	15,000 Wp
Max. input voltage ²	1,100 V					
Operating voltage range ³	140-980 V					
Startup voltage	200 V					
Rated input voltage	600 V					
Max. input current per MPPT	13.5 A					
Max. short-circuit current	19.5 A					
Number of MPP trackers	2					
Max. input number per MPP tracker	1					
Input (DC Battery)						
Compatible battery	HUAWEI Smart String ESS 5kWh-30kWh					
Operating voltage range	600-980 V					
Max. operating current	16.7 A					
Max. charge power	10,000 W					
Max. discharge power	3,300 W	4,400 W	5,500 W	6,600 W	8,800 W	10,000 W
Output (On Grid)						
Grid connection	Three-phase					
Rated output power	3,000 W	4,000 W	5,000 W	6,000 W	8,000 W	10,000 W
Max. apparent power	3,300 VA	4,400 VA	5,500 VA	6,600 VA	8,800 VA	11,000 VA ⁴
Rated output voltage	220 V AC/380 V AC, 230 V AC/400 V AC, 3W/N+PE					
Rated AC grid frequency	50 Hz/60 Hz					
Max. output current	5.1 A	6.8 A	8.5 A	10.1 A	13.5 A	16.9 A
Adjustable power factor	0.8 leading ... 0.8 lagging					
Max. total harmonic distortion	≤ 3%					
Output (Off Grid)						
BackupBox	BackupBox-B1					
Max. apparent power	3,000 VA	3,300 VA	3,300 VA	3,300 VA	3,300 VA	3,300 VA
Rated output voltage	220 V/230 V					
Max. output current	13.6 A	15 A	15 A	15 A	15 A	15 A
Power factor range	0.8 leading ... 0.8 lagging					
Protection Feature						
Input-side disconnection device	Yes					
Anti-islanding protection	Yes					
DC reverse polarity protection	Yes					
Insulation monitoring	Yes					
DC surge protection	Yes, compatible with TYPE II protection class according to EN/IEC 61643-11					
AC surge protection	Yes, compatible with TYPE II protection class according to EN/IEC 61643-11					
Residual current monitoring	Yes					
AC overcurrent protection	Yes					
AC short-circuit protection	Yes					
AC overvoltage protection	Yes					
Arc fault protection	Yes					
Ripple receiver control	Yes					
Integrated PID recovery ⁵	Yes					
Battery charging from grid	Yes					
General Specification						
Operating temperature range	-25°C to +60°C (-13°F to +140°F)					
Relative operating humidity	0%-100% RH					
Max. operating altitude	4,000 m (13,123 ft.) (Derating above 2000 m)					
Cooling	Natural convection					
Display	LED Indicators; Integrated WLAN + FusionSolar app					
Communication	RS485; WLAN/Ethernet via Smart Dongle-WLAN-FE; 4G/3G/2G via Smart Dongle-4G (Optional)					
Weight (incl. mounting brackets)	17 kg (37.5 lb)					
Dimensions (incl. mounting brackets)	525 mm x 470 mm x 146.5 mm (20.7 in. x 18.5 in. x 5.8 in.)					
IP rating	IP65					
Nighttime power	< 5.5 W ⁶					
Optimizer Compatibility						
DC MBUS compatible optimizer	SUN2000-450W-P2, SUN2000-600W-P					
Standards Compliance (More Available Upon Request)						
Safety	EN/IEC 62109-1, EN/IEC 62109-2, IEC 62116					
Grid connection standards	G98, G99, EN 50438, CEI 0-21, VDE-AR-N-4105, AS 4777, C10/11, ABNT, UTE C15-712, RD 1699, TOR D4, NRS 097-2-1, IEC61727, IEC62116, DEWA					

*1 The inverter max input PV power is 20,000 Wp when long strings are designed and fully connected with SUN2000-450W-P2, SUN2000-600W-P power optimizers.

*2 The max. input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage the inverter.

*3 Any DC input voltage beyond the operating voltage range may result in inverter malfunction.

*4 C10/11: 10,000 VA

*5 SUN2000-3~10KTL-M1 raises the potential between PV- and ground to above zero through integrated PID recovery function to recover from PID-caused module degradation module types: P-type (mono, poly).

*6 < 10 W when PID recovery function is activated.

SMART ENERGY CONTROLLER



Active Safety
AFCI Active Arcing
Protection



Higher Yields
Up to 30% More Energy
with Optimizer



Flexible Communication
WLAN, Fast Ethernet, and 4G
Communication Supported

SUN2000-12/15/17/20/25KTL-M5 **Technical Specification**

Technical Specification	SUN2000 -12KTL-M5	SUN2000 -15KTL-M5	SUN2000 -17KTL-M5	SUN2000 -20KTL-M5	SUN2000 -25KTL-M5
Efficiency					
Max. efficiency	98.4%	98.4%	98.4%	98.4%	98.4%
European weighted efficiency	97.9%	98.0%	98.1%	98.1%	98.2%
Input					
Recommended max. PV power ¹	18,000 Wp	22,500 Wp	25,500 Wp	30,000 Wp	37,500 Wp
Max. input voltage ²	1100 V				
Full-load MPPT voltage range	370-800 V	410-800 V	440-800 V	480-800 V	530-800 V
MPPT operating voltage range ³	200-1000 V				
Start-up voltage	200 V				
Rated input voltage	600 V				
Max. input current per MPPT	30 A (two-string)/20 A (single string)				
Max. short-circuit current	40 A				
Number of MPP trackers	2				
Max. number of inputs	4				
Output					
Grid connection	Three-phase				
Rated output power	12,000 W	15,000 W	17,000 W	20,000 W	25,000 W
Max. apparent power	13,200 W	16,500 VA	18,700 VA	22,000 VA	27,500 VA
Rated output voltage	220 V AC/380 V AC, 230 V AC/400 V AC, 239.6 V AC/415V AC, 3W + N + PE				
Rated AC grid frequency	50 Hz/60 Hz				
Max. output current	18.2 A/380 V AC	25.2 A/380 V AC	28.6 A/380 V AC	33.6 A/380 V AC	42.0 A/380 V AC
	17.3 A/400 V AC	23.9 A/400 V AC	27.1 A/400 V AC	31.9 A/400 V AC	39.9 A/400 V AC
	16.7 A/415 V AC	23.1 A/415 V AC	26.1 A/415 V AC	30.8 A/415 V AC	38.5 A/415 V AC
Adjustable power factor	0.8 leading ... 0.8 lagging				
Max. total harmonic distortion	≤ 3%				
Protection Feature					
Overvoltage category	PV II /AC III				
Input-side disconnection device	Yes				
Anti-islanding protection	Yes				
AC over-current protection	Yes				
DC reverse polarity protection	Yes				
String fault detection	Yes				
DC surge protection	TYPE II				
AC surge protection	CLASS II				
Residual current monitoring unit	Yes				
Arc fault protection	Yes				
Ripple receiver control	Yes				
Integrated PID recovery ⁴	Yes				
General Specification					
Operating temperature range	-25°C to +60°C (-13°F to +140°F)				
Relative humidity	0%-100% RH				
Max. operating altitude	4,000 m (13,123 ft.) (Derating above 2000 m)				
Cooling	Smart air cooling				
Display	LED Indicators; Integrated WLAN + FusionSolar App				
Communication	RS485; WLAN/Ethernet via Smart Dongle-WLAN-FE (Optional) 4G/3G/2G via Smart Dongle-4G (Optional)				
Weight (with mounting plate)	21 kg (46.4 lb)				
Dimensions (W x H x D) (incl. mounting plate)	546 mm x 460 mm x 228 mm (21.5 in. x 18.1 in. x 9.0 in.)				
IP rating	IP66				
Optimizer Compatibility					
DC MBUS compatible optimizer	SUN2000-450W-P2, SUN2000-600W-P, MERC-1100W-P, MERC-1300W-P				
Standards Compliance (More Available Upon Request)					
Safety	EN/IEC 62109-1, EN/IEC 62109-2				
Grid connection standards	G99, EN 50549, CEI 0-21, CEI 0-16, VDE-AR-N-4105, VDE-AR-N-4110, C10/11, ABNT, VFR 2019, UNE 217001, UNE 217002, RD 244, TOR D4, IEC61727, IEC62116				

*1 The inverter max. input PV power is 40,000 Wp when long strings are designed and fully connected with SUN2000-450W-P power optimizers.

*2 The max. input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage the inverter.

*3 Any input DC voltage beyond the operating voltage range may result in inverter malfunction.

*4 SUN2000-12~20KTL-M2 raises the potential between PV- and ground to above zero through integrated PID recovery function to recover from PID-caused module degradation. Supported module types: P-type (mono, poly)

SMART STRING ENERGY STORAGE SYSTEM



More Usable Energy
100% Depth of Discharge and
Pack-Level Energy Optimization



Flexible Investment
5 kWh Modular Design,
Scalable from 5 to 30 kWh



Safe & Reliable
4-layer Safety Protection
IP66



More Options
12 kg Power Module
50 kg Battery Module

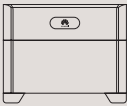
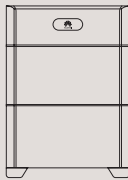
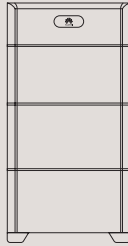


Quick Commissioning
Automatic Device
Discovery by the App



Perfect Compatibility
Compatible to Single & Three
Phase Inverters

LUNA2000-5/10/15-S0 Technical Specification

Technical Specification	LUNA2000-5-S0	LUNA2000-10-S0	LUNA2000-15-S0
			

Performance			
Power module	LUNA2000-5KW-C0		
Number of power modules	1		
Battery module	LUNA2000-5-E0		
Battery module capacity	5 kWh		
Number of battery modules	1	2	3
Battery usable capacity ¹	5 kWh	10 kWh	15 kWh
Max. output power	2.5 kW	5 kW	5 kW
Peak output power	3.5 kW, 10s	7 kW, 10s	7 kW, 10s
Nominal voltage (single-phase system)	450 V		
Operating voltage range (single-phase system)	350-560 V		
Nominal voltage (three-phase system)	600 V		
Operating voltage range (three phase system)	600-980 V		
Communication			
Display	SOC status indicator, LED indicator		
Communication	RS485/CAN (only for parallel operation)		
General Specification			
Dimensions (W x D x H)	670 mm x 150 mm x 600 mm (26.4 in. x 5.9 in. x 23.6 in.)	670 mm x 150 mm x 960 mm (26.4 in. x 5.9 in. x 37.8 in.)	670 mm x 150 mm x 1320 mm (26.4 in. x 5.9 in. x 60.0 in.)
Weight (Floor stand toolkit included)	63.8 kg (140.7 lb)	113.8 kg (250.9 lb)	163.8 kg (361.1 lb)
Power module dimension (W x D x H)	670 mm x 150 mm x 240 mm (26.4 in. x 5.9 in. x 9.4 in.)		
Power module weight	12 kg (26.5 lb)		
Battery module dimensions (W x D x H)	670 mm x 150 mm x 360 mm (26.4 in. x 5.9 in. x 14.0 in.)		
Battery module weight	50 kg (110.2 lb) ²		
Installation	Floor stand (standard), Wall mount (optional)		
Operating temperature	-20°C to +55°C (-4°F to +131°F) ³		
Max. operating altitude	4,000 m (13,123 ft.) (Derating above 2,000 m)		
Environment	Outdoor ⁴ (*Please refer to the user manual for installation condition)		
Relative humidity	5%-95% RH		
Cooling	Natural convection		
IP rating	IP 66		
Noise emission ⁵	< 29 dB		
Cell technology	Lithium-iron phosphate (LiFePO4)		
Scalability	Max. 2 systems in parallel operation		
Compatible inverters	SUN2000-2/3/3.68/4/4.6/5/6KTL-L1, SUN2000-3/4/5/6/8/10KTL-M0 ⁶ , SUN2000-3/4/5/6/8/10KTL-M1		
Standards Compliance (More Available Upon Request)			
Certificates	CE, RCM, CEC, VDE2510-50, IEC62619, IEC 60730, UN38.3		
Ordering			
Available for ordering ⁷	LUNA2000-5KW-C0, LUNA2000-5-E0, LUNA2000 Wall Mounting Bracket		

*1 Test conditions: 100% depth of discharge (DoD), 0.2C charge & discharge rate at 25°C, at the beginning of service life. If no PV modules are installed or the system has not detected sunlight for 24 hours or longer, the minimum end-of-discharge SOC is 15%.

*2 The weight of the battery module may vary with products, with a tolerance of ±3%.

*3 Refer to battery warranty letter for conditional application.

*4 Improper storage system installation may compromise product warranty and operation safety. Please follow the user manual during the installation, use, and maintenance of the storage system.

*5 Noise level (typical): < 29 dB(A) @1 m, 30°C, power on and run stably for 2 hours

*6 Please contact local engineers for the compatibility between the SUN2000-3/4/5/6/8/10KTL-M0 and the LUNA2000.

*7 Power modules and battery modules of ESS products are ordered and shipped separately in the requester quantity.

SMART STRING ENERGY STORAGE SYSTEM



*Available in specific regions only



24 Hours Power Supply
100% Depth of Discharge
Pack Level Energy
Optimization



Safe & Reliable
Lithium Iron Phosphate (LFP) Cell
Cell Level Monitoring
0 V on Port
Built-in Fire Suppression Kit



High Quality Experience
Sleep-level Noise
One App for All Control

Power-M-5/10/15/20/25/30 Technical Specification

System Specifications						
Power module	iSitePower-M-MAP05A1					
Output/Input power per module	2.5 kW					
Battery module	iSitePower-M-MAB05B1					
Battery module capacity	5 kWh					
Number of power modules	1					
Number of battery modules	1	2	3	4	5	6
Battery usable capacity ¹	5 kWh	10 kWh	15 kWh	20 kWh	25 kWh	30 kWh
Max. output power	2.5kW	5 kW	5 kW	5 kW	5 kW	5 kW
Communication						
Display	SOC status indicator					
Communication	CAN (for parallel communications between power modules, between battery modules and power modules, and between battery modules); WLAN/FE/4G (for connecting to the SmartPVMS)					
General Specification						
Power module dimension (W x H x D)	700 mm x 246 mm x 152 mm					
Power module weight	17 kg					
Battery module dimension (W x H x D)	700 mm x 390 mm x 158 mm					
Battery module weight	50 kg					
Base dimension (W x H x D)	700 mm x 65 mm x 147 mm (floor installation) 643 mm x 110 mm x 176 mm (wall-mounted installation)					
Base weight	1.5 kg (floor installation) 5.5 kg (wall-mounted installation)					
Installation mode	Wall-mounted/Floor-mounted					
IP rating	IP 66					
Cell technology	Lithium-iron phosphate (LiFePO4)					
AC input						
Input voltage	200/208/220/230/240 V AC					
Input current	Max. 30 A					
Frequency	50/60 Hz					
Maximum bypass input power	6 kW					
Lightning protection	Differential mode (between live and neutral): 3 kA; 8/20 μs Common mode (between live or neutral and PE, between live/neutral pair and PE): 5 kA; 8/20 μs					
PV input						
MPPT voltage range	90-420 V DC					
Maximum input capacity of the MPPT	5.5 kWp					
PV string quantity	2 strings					
Number of MPPT channels	1 channel					
Maximum input current for one string	12.5 A					
Maximum short circuit current per string	18 A					
Lightning protection	Common mode (between PV+/PV- pair and PE): ±10 kA; 8/20 μs					
AC output						
Output	Single-phase 200/208/220/230/240 V AC. The default value is 220 V AC					
Output frequency	50/60 Hz. The default value is 50 Hz.					
Maximum output current	30 A					
Output power	6 kVA/5 kW					
Power factor	0.8					
Overload capacity						
102% ≤ Load ≤ 125%	30s					
125% < Load ≤ 150%	10s					
>150%/short circuit	0.3s					
AC Parallel Box						
Dimensions (W * H * D)	350 mm x 450 mm x 150 mm					
Weight	Approx. 12 kg					
Input voltage	200/208/220/230/240 V AC. The default value is 220 V AC.					
Input current	Max. 90 A					
Output voltage	200/208/220/230/240 V AC. The default value is 220 V AC.					
Output current	Max. 90 A					
Cable outlet mode	Bottom in and bottom out					
Installation mode	Wall-mounted or pole-mounted installation					
IP rating	IP55					
Environmental parameters						
Operating temperature	0°C to 45°C					
Relative humidity	5%-95% (RH)					
Operating altitude	0-4000 m (The operating temperature decreases by 1°C per 200 m when the altitude is 2000 m to 4000 m)					
Standards Compliance						
Certifications	IEC62920: 2017, CISPR11: 2015+A1: 2016/EN55011: 2016+A1: 2017, EN62040-2, ETSI EN 301 489-1, ETSI EN 301 489-17, IEC61000-3, IEC 62619, IEC 62109-1, IEC 62109-2, RoHS, EN 50385, RCM, UKCA, ICE 60730, UN38.3					

*1 Test conditions: 100% depth of discharge (DoD), 0.2C rate charge & discharge at 25 °C, at the beginning of life. If no PV modules are installed or the system has not detected sunlight for at least 24 hours, the minimum end-of-discharge SOC is 15%.

*2. The weight of the battery module is subject to the actual product, with a tolerance of ±3%.

*3. Refer to battery warranty letter for conditional application.

*4. Improper storage system installation may compromise product warranty and operation safety. Please follow the user manual during the installation, use, and maintenance of the storage system.

SMART MODULE CONTROLLER



Higher Yields

Module-level Optimization
Increase System Energy
Yield by 5% to 30%



Active Safety

Firefighting and O&M
Safety with Module-level
Rapid Shutdown



Flexible Design

Easier Module Layout
and 30% Higher Installed
Capacity on Average



Smart O&M

Module-level
Visibility and Refined
Management

SUN2000-450W-P2/SUN2000-600W-P **Technical Specification**

Technical Specification	SUN2000-450W-P2	SUN2000-600W-P
Input		
Rated input DC power ¹	450 W	600 W
Absolute max. input voltage	80 V	
MPPT operating voltage range	10-80 V	
Max. short-circuit current (Isc)	14.5 A	
Max. efficiency	99.5%	
Weighted efficiency	99.0%	
Overvoltage category	II	
Output		
Max. output voltage	80 V	
Max. output current	15 A	
Output bypass ²	Yes	
Output voltage during standby ³	0 V	
Output impedance during standby	1 k Ω \pm 10%	
Communication		
Communication protocol	MBUS	
Standards Compliance		
Safety	IEC62109-1 (class II safety)	
RoHS	Yes	
Fire Safety	VDE-AR-E 2100-712:2018-12	
General Specifications		
Dimensions (W x H x D)	75 mm x 140 mm x 28 mm (3.0 in. x 5.5 in. x 1.1 in.)	
Weight (including cables)	0.6 kg (1.3 lb.)	
Installation part (optional)	Frame mounting bracket/T-shaped bolt ⁴	
Input connector	Staubli MC4	
Input wire length	0.15 m (0.49 ft.)	
Output connector	Staubli MC4	
Output wire length	1.3 m (4.3 ft.)	
Operating temperature/humidity range	-40°C to +85°C ⁵ /0%-100%	
IP rating	IP68	
Compatible inverters	SUN2000-2/3/3.68/4/4.6/5/6KTL-L1, SUN2000-3/4/5/6/8/10KTL-M1, SUN2000-8/10/12/15/17/20KTL-M2, SUN2000-12/15/17/20/25KTL-M5, SUN2000-30/36/40KTL-M3	

PV System Design ⁶	SUN2000-2~6KTL-L1	SUN2000-3~10KTL-M1	SUN2000-8~20KTL-M2 SUN2000-12~25KTL-M5	SUN2000-30~40KTL-M3
Min. string length (power optimizers)	4	6	6	6
Max. string length (power optimizers)	25	35	35	25
Max. DC power per string	6,000 W	10,000 W	12,000 W	12,000 W

*1 The maximum power of PV module at STC shall NOT exceed the "Rated Input DC Power" of the power optimizer. PV modules with up to +5% power tolerance are allowed.

*2 Any power optimizer, which is connected to an operating inverter in a PV string, will be bypassed when it fails.

*3 Once the power optimizer stops working, its output voltage is reduced to 0 V.

*4 It is for PV module frame/extruded aluminum profile racking system installation.

*5 When the operating temperature of the SUN2000-450W-P2/600W-P reaches 70 °C to 85 °C, it may shut down due to over-temperature protection and report an over-temperature alarm. After the temperature decreases, it can automatically resume working without causing any damage.

*6 SUN2000-450W-P2/600W-P and MERC-1100/1300W-P can NOT be used in mixture under the same Smart Energy/PV Controller.

SMART MODULE CONTROLLER



Higher Yields
Module-level Optimization
Increase System Energy
Yield by 5% to 30%



Flexible Design
Long String Design
to Reduce Bos



Active Safety
Safe Voltage Shutdown
Ensure Firefighting and
Maintenance Safety



Smart O&M
Pinpointing Open-
Circuit Fault for Quick
Troubleshooting

MERC-1100/1300W-P Technical Specification

Technical Specification	MERC-1100W-P	MERC-1300W-P
Input		
Rated input DC power ¹	1100 W	1300 W
Absolute max. input voltage	125 V	
MPPT operating voltage range	12.5-105 V	
Max. short-circuit current (Isc)	20 A	
Max. efficiency	99.5%	
Weighted efficiency	99.0%	
Overvoltage category	II	
Output		
Max. output voltage	80 V	
Max. output current	22 A	
Output bypass ²	Yes	
Safety output voltage ³	1 V	
Standards Compliance		
Safety	IEC62109-1 (class II safety)	
RoHS	Yes	
General Specification		
Dimension (W X H X D)	149 mm x 104 mm x 48.8 mm (5.9 in. x 4.1 in. x 1.9 in.)	
Weight (including wires)	1.0 kg (2.2 lb.)	
Installation part (optional)	PV Module Frame Plate/T-shaped Bolt ⁴	
Input connector	Staubli MC4	
Input wire length	0.1 m (+/-) (short-input-cable version) ⁵	
Output connector	Staubli MC4	
Output wire length	0.1 m (+), 5.1 m (-) (short-input-cable version) ⁵	
Operating temperature	-40°C to +85°C ⁶	
Relative humidity	0%-100%	
IP rating	IP68	
Compatible inverters	SUN2000-8/10/12/15/17/20KTL-M2, SUN2000-30/36/40KTL-M3, SUN2000-12/15/17/20/25KTL-M5, SUN2000-50KTL-M3	

PV System Design ^{7/8/9}	SUN2000-8~20KTL-M2	SUN2000-12~25KTL-M5	SUN2000-30~40KTL-M3	SUN2000-50KTL-M3
Minimum String Length (Power Optimizers)	8	8	8	8
Maximum String Length (Power Optimizers)	25	25	25	20
Maximum DC Power per String	20,000 W	20,000 W	20,000 W	20,000 W



*1 The maximum power of PV module at STC shall NOT exceed the "Rated Input DC Power" of MERC-1100/1300W-P. PV Modules with up to +5% power tolerance are allowed.

*2 Any power optimizer, which is connected to an operating inverter in a PV string, will be bypassed when it fails.

*3 When the MERC-1100/1300W-P is disconnected from inverter or when the inverter is off, its output voltage will become 1 V.

*4 It is for PV module frame/extruded aluminum profile racking system installation.

*5 Pay attention to the PV module wire length. To match PV modules with a split junction box and short output wire, the long-input-cable version (input wire: 1.3 m (+/-); output wire: 0.1 m (+)/2.9m (-)) of MERC-1100/1300W-P is available upon request.

*6 When the operating temperature of the MERC-1100/1300W-P reaches 70 °C to 85 °C, it may shut down due to over-temperature protection and report an over-temperature alarm. After the temperature decreases, it can automatically resume working without causing any damage.

*7 Each PV module under the same inverter must be equipped with a MERC-1100/1300W-P.

*8 SUN2000-450W-P2/600W-P and MERC-1100/1300W-P can NOT be used in mixture under the same Smart Energy/PV Controller.

*9 It is recommended that strings under the same inverter have an equal capacity. If this is not feasible, the capacity difference between strings under the same inverter must not exceed 2 kW. Otherwise, the energy yield will be reduced.

SMART CHARGER



Single-Phase

7.4 kW/32 A
SCharger-7KS-S0



Three-Phase

22 kW/32 A
SCharger-22KT-S0

*Available in specific regions only



PV Power

Power Your Car with
Solar Make EV Even
Greener



Dynamic Charging Power

Automatic Detection and
Adjustment
No Worry about Overload



3 Ways of Authentication

Authentication Through
Bluetooth, RFID



3-Step Installation

Fast Installation in 16
Minutes
Wiring-free Maintenance

SCharger-7KS-S0/SCharger-22KT-S0 Technical Specifications

Technical Specification	SCharger-7KS-S0	SCharger-22KT-S0
Inputs and Outputs		
Charge power (configurable)	1.4 kW to 7.4 kW	1.4 kW ¹ to 22 kW
Nominal voltage	230 V ± 20% (1-phase)	400 V ± 20% (3-phase)
Nominal current (configurable)	6-32 A (1-phase)	6-32 A (3-phase or 1-phase)
Nominal frequency	50 Hz/60 Hz ± 1 Hz	
Vehicle connection	Type 2 socket	
Cable cross-sectional area	Up to 10 mm ²	
Network types	TN, TT, IT	TN, TT
User Interface & Communications		
Protocol	Modbus TCP	
Communication	Wi-Fi/Ethernet	
Charger status information	WRGB LED and app	
Authentication	RFID (ISO-14443-A), app, Bluetooth	
Remote control & monitoring	App	
Working mode	Normal Charge Scheduled Charge PV Power Preferred	
Protection		
Cable protection	Cable E-Lock via app	
Residual current protection (RCD)	Type A (30 mA) + DC 6 mA integrated	
Fire class	UL94	
Overcurrent protection	IEC 61851-1	
Over-temperature protection	Yes	
Surge protection	CAT II	
General Specification		
Operating temperature range	-35°C to +45°C -35°C to +40°C @ 32A -35°C to +50°C @ 16A	
Application environment	Outdoor/Indoor	
Storage temperature	-40°C to +70°C	
Relative humidity	5%-95% RH	
Altitude	≤ 2000 m (derating between 2000~4000 m)	
Dimensions (H x W x D)	335 mm x 180 mm x 145 mm	
Weight	3 kg 3.1 kg	
Installation mode	Wall-mounted	
IP rating	IP54	
Impact protection level	IK10	
Standby self-consumption	< 6 W	
Standards Compliance (More Available Upon Request)		
Safety & Health	EN IEC 61851-1 2019, EN 62311 2008, EN IEC 62311 2020, EN 50665 2017, EN 50364 2018	
EMC	EN IEC 61851-21-2 2021, EN 301 489-1 V2.2.3 2019, EN 301 489-3 V2.1.1 2019, EN 301 489-17 V3.2.4 2020	
Radio	ETSI EN 300 328 V2.2.2, ETSI EN300 330 V2.1.1	
RoHS	EN IEC 63000:2018	
Others		
Accessories	RFID Card * 2	

*1 1.4 kW for 1-phase charge and 4. 2 kW for 3-phase charge

BACKUPBOX



Simplicity
Automatic Detection &
Switchover



Reliability
Reliable Backup Power



Black Start
System Restarts After
Battery Shutdown

BackupBox-B0/B1 Technical Specifications

Technical Specification	BackupBox-B0	BackupBox-B1
AC Output (On-Grid Mode)		
Grid connection	Single-phase	Three-phase
Rated voltage	220 V/230 V	380 V/400 V
AC frequency	50 Hz/60 Hz	
AC output voltage range	198-253 V	342-440 V
AC Output (Backup Mode)		
Load connection	Single-Phase	Single-Phase
Rated voltage	220 V/230 V	220 V/230 V
AC frequency	50 Hz/60 Hz	
Max. apparent power	5,000 VA	3,300 VA
Max. output current	22.7 A	15.2 A
Switchover time	< 3s	
AC Input (Inverter Input Port)		
Rated voltage	220 V/230 V	380 V/400 V
AC frequency	50 Hz/60 Hz	
Compatible inverter	SUN2000-2/3/3.68/4/4.6/5/6KTL-L1	SUN2000-3/4/5/6/8/10KTL-M1
General Specification		
Operating temperature range	-20°C to +45°C (-4°F to +113°F)	
Relative humidity range	0%-100% RH	
Dimensions (W x H x D)	400 mm x 350 mm x 130 mm (15.8 in. x 13.8 in. x 5.1 in.)	
Weight	11 kg	
IP rating	IP65	

SMART DONGLE-WLAN-FE



Smart

Wlan & Fast Ethernet (Fe)
Communication, Support 3Rd-
Party Monitoring System ¹



Simple

Plug-and-play, with A
Maximum of 10 Devices
Connected



Reliable

IP65
Auto Reconnection

Smart Dongle-WLAN-FE Technical Specifications

Technical Specification	SDongleA-05(AP+STA)
General Specification	
Max. devices supported	10
Max. inverters supported	10
Connection interface	USB
Ethernet interface	10/100M Ethernet
Installation	Plug-and-play
Indicator	LED Indicator
Dimensions (W x H x D)	146 mm x 48 mm x 33 mm (5.1 in. x 1.9 in. x 1.3 in.)
Weight	90 g (0.2 lb.)
IP rating	IP65
Power (typical)	2.5 W
Working mode	AP + STA
Security	Security protocol: WPA/WPA2 Encryption: TKIP/CCMP/AES
Radio Specification	
Supported standards & frequencies	802.11b/g/n (2.412-2.484 GHz)
Environment	
Operating temperature range	-30°C to +65°C (-22°F to +149°F)
Relative humidity range	5%-95% RH
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Max. operating altitude	4,000 m (13,123 ft.)
Standards Compliance (More Available Upon Request)	
Certificate	SRRC, CE, RCM
Inverter Compatibility	
Inverter model	SUN2000-2/3/3.68/4/4.6/5/6-L1 SUN2000-3/4/5/6/8/10-M1 SUN2000-12/15/17/20KTL-M2 SUN2000-12/15/17/20/25KTL-M5 SUN2000-30/36/40/50KTL-M3 SUN2000-100/115KTL-M2

1: 3rd-party management system shall support the communication protocol used on Huawei Smart Dongle.

SMART DONGLE-4G



Smart

4G Communication ¹
Support for 3Rd-party ²
Monitoring System



Simple

Plug-and-play Wlan-ap for
Local Deployment ³



Reliable

IP65
Auto Reconnection

Smart Dongle-4G Technical Specifications

Technical Specification	SDongleB-06-EU	SDongleB-06-AU	SDongleB-06-NH
General Specification			
Max. devices supported	10		
Max. inverters supported	10		
Connection interface	USB		
Installation	Plug-and-play		
Indicator	LED indicator		
Dimensions (W x H x D)	162 mm x 48 mm x 28 mm		
IP rating	IP65		
Power (typical)	3.5 W		
Wireless Parameter			
SIM card type	Mini-SIM (15 mm x 25 mm)		
Supported standards & frequencies ⁴	LTE-FDD: B1/B3/B7/B8/B20/B28 LTE-TDD: B38/B40/B41 GSM: 850/900/1800/1900 MHz	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B28 LTE-TDD: B40 WCDMA: B1/B2/B5/B8 GSM: 850/900/1800/1900 MHz	LTE-FDD: B1/B3/B8/B18/B19/B26 LTE-TDD: B41 WCDMA: B1/B6/B8/B19
Wi-Fi operation mode	AP		
Supported standards & frequencies	802.11b/g/n (2.412-2.484 GHz)		
Environment			
Operating temperature range	−30°C to +65°C (−22°F to +149°F)		
Relative humidity range	5%-95% RH		
Storage temperature range	−40°C to +70°C (−40°F to +158°F)		
Max. operating altitude	4,000 m (13,123 ft.)		
Standards Compliance (More Available Upon Request)			
Certificate	CE	RCM	TELEC
Inverter Compatibility			
Inverter model	SUN600-5/6KTL-L0 SUN2000-2~6KTL-L1 SUN2000-3~10KTL-M1 SUN2000-8~20KTL-M2 SUN2000-12~25KTL-M5 SUN2000-20~50KTL-M3	SUN2000-50/60KTL-M0 SUN2000-50KTL-JPM1 SUN2000-63KTL-JPM0 SUN2000-75KTL-M1 SUN2000-100KTL-M0/M1 SUN2000-100KTL-INM0 SUN2000-100/115KTL-M2	

1: To ensure stable data transmission, Huawei recommends that a 4G Dongle be installed in areas with stable mobile signal (2G signal ≥ 4 bars, 3G/4G signal ≥ 3 bars).

2: 3rd-party management system shall support the communication protocol used on Huawei Smart Dongle.

3: When all inverters support WLAN hotspot, hotspot of Dongle will be disabled by default.

4: For recommended carriers list and details on supported frequencies, please contact local distributors.

SMART POWER SENSOR



Accurate
Class 1 Measurement
Accuracy






Simple & Easy
Lcd Display, Easy to Set
and Check

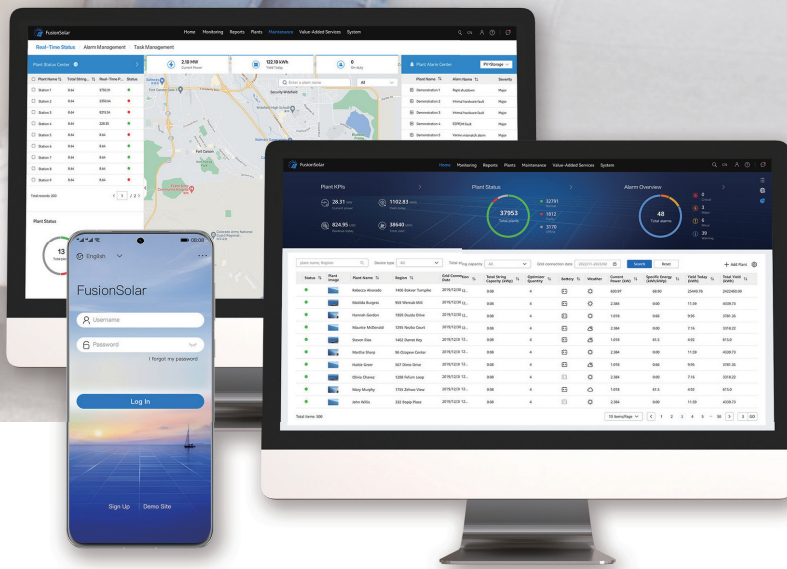


Energy Efficient
Overall Power
Consumption $\leq 1.5\text{ W}$

Smart Power Sensor Technical Specifications

Technical Specification	SmartPS-100A-S0	SmartPS-80A-T0	DDSU666-H	DTSU666-H
General Specification				
Dimensions (H x W x D)	100 mm x 36 mm x 65.5 mm (3.9 in. x 1.4 in. x 2.6 in.)	100 mm x 72 mm x 80 mm (3.9 in. x 2.8 in. x 3.1 in.)	100 mm x 36 mm x 65.5 mm (3.9 in. x 1.4 in. x 2.6 in.)	100 mm x 72 mm x 65.5 mm (3.9 in. x 2.8 in. x 2.6 in.)
Mounting type	DIN35 Rail			
Weight (including cables)	1.2 kg	< 0.5 kg	1.2 kg (2.6 lb)	1.5 kg (3.3 lb)
Power Supply				
Power grid type	1P2W	3P3W/3P4W	1P2W	3P3W/3P4W
Input voltage (phase voltage)	176-288 V AC	90-500 V AC	176 V AC-288 V AC	
Power consumption	≤ 0.8 W	≤ 1.5 W	≤ 0.8 W	≤ 1 W
Measurement Range				
Line voltage	/	90-1000 V AC (> 500 with external PT ¹⁾)	/	304 V AC-499 V AC
Phase voltage	176-288 V AC	52-577 V AC	176 V AC-288 V AC	
Current	0-100 A	0-80 A (>80 with external CT ²⁾)	0-100 A	0-100 A
Measurement Accuracy				
Current/Voltage	±0.5%			
Power/Energy	±1%			
Frequency	±0.01 Hz			
Communication				
Interface	RS485			
Baud rate	4800/9600/19200/115200 (9600 bps by default)		9,600 bps	
Communication protocol	Modbus-RTU			
Environment				
Operating temperature range	-25°C to +60°C			
Storage temperature range	-40°C to +70°C			
Operating humidity	5% RH-95% RH (non-condensing)			
Others				
Accessories	RS485 Cable (10 m / 33 ft.)		RS485 Cable (10 m / 33 ft.)	
	1 CT 100 A / 40 mA (5 m / 16.4 ft.) 	/	1 CT 100 A / 40 mA (5 m / 16.4 ft.) 	3 CT 100 A / 40 mA (5 m / 16.4 ft.) 

FUSIONSOLAR SMART PV MANAGEMENT SYSTEM



Better Experience

- One app for All Products
- Auto-Discovery of Local Components
- Module Auto-mapping Within 5S



Energy Visualization

- Kpi Dashboard and Centralized Management of Multiple Plants
- Module-level Monitoring
- Report Subscription and Real-time Alarm Push



Smart O&M

- Site, Personnel, and Status Management on One Screen
- One-click Ticket Dispatching & Site
- Navigation Online Smart I-V Curve Diagnosis in 15 Min. for A 100Mw Plant

● FusionSolar Smart PV Management System

Category	Function	Web	App
Homepage	PV Plants List	●	●
	Add Plant	●	●
Report Management	Plant Report	●	
	Inverter Report	●	
	Battery Report	●	
Device Management	Device Details	●	●
	Remote Parameter Setting	●	
	Remote Optimizer Search	●	
Intelligent O&M	Real-time Status	●	
	Alarm Management	●	●
	Task Management	●	●
	Smart IV-Curve Diagnose	●	
KPI Dashboard	KPI Dashboard	●	
Homepage of Single Plant	Energy Flow	●	●
	Energy Management	●	●
	Plant Layout	●	●
	Kiosk Mode	●	
System Setting	Plant Management	●	●
	Company Management	●	
Demo	Demo Site	●	●

03

SERVICE



AFTER-SALES SERVICE SUPPORT

FusionSolar global service centers cover more than 170 countries, supporting 1/3 of the world's population



14+

Languages



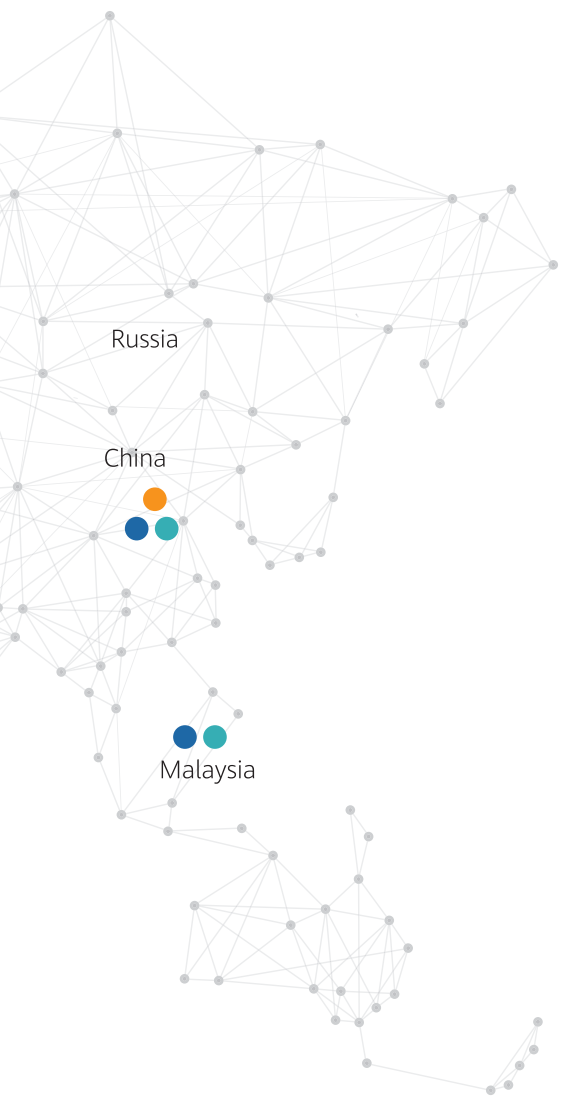
500+

Professional Technical
Engineers



24/7

Support



Hotline Service

Supporting 24/7 hour online services in multiple languages, making holidays worry-free

On-site Service

Remote troubleshooting services are provided online in multiple languages by experienced and dedicated engineers.

Spare Parts Service

Our spare parts service covers the globe and we have localized spare parts warehouses to provide you with timely and accurate spare parts support and services.

Training Service

Technical training on Smart PV solutions and products is available for agents and partners, including hands-on training.

Repairing Service

Various maintenance services are provided. Customers can choose the extended service based on the service period.

Warranty Service

During the warranty period, free remote technical support services and spare parts services



SMART PV COMMUNITY

Please click the link to join us: <https://community.solar.huawei.com>

01

Plenty training resources

More than 40+ courses and webinars available online, providing the best training you need to start with.



02

Become our certificated installer

Once you finish the courses, you can pass the exam and become our certificated installer

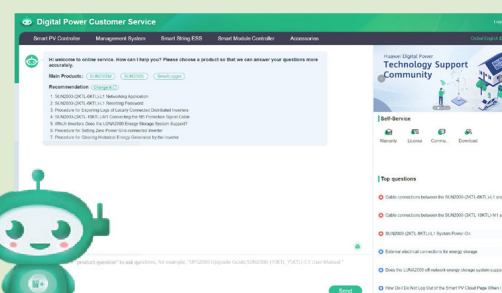
Level	Occupation
Primary	Onsite installer
Advanced	Installer CTO, sales



Have more questions? Contact us and get support

Online Service

The online Digital Power Customer Service is available now. You can find it in the floating window on the website or FusionSolar app, and get help anytime, anywhere



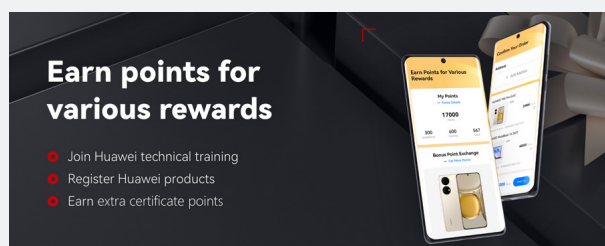
03

Earn the point and get reward

After becoming our registered installer, you can earn the points and get rewards from online shopping mall

How to get points?

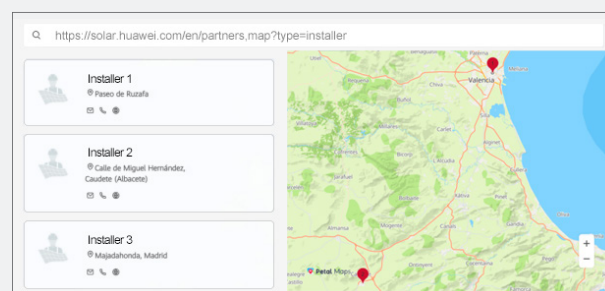
1. Install inverter, optimizer and energy storage products and connect them to the FusionSolar Management System
2. Join online webinars/offline seminars



04

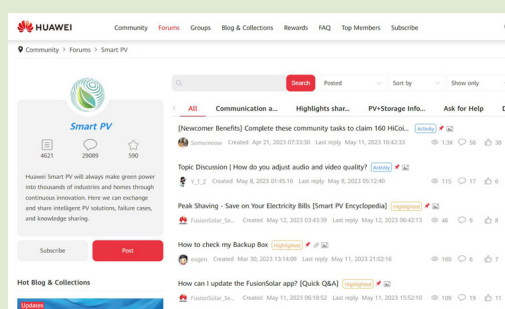
Join the installer map

Once becoming our certificated installer and getting enough points, you can sign up on the installer map so that customers can find you online and boost your business



Installer Forums

You also can post your questions on the online forum to discuss with other installers. The technical experts also would respond to the questions



04

CASE STUDIES

CASES

◆ PV+ESS Scenario



Residential PV system in Villa Argentino, Italy

Capacity: 6 kWp

System Configuration

- + SUN2000-6KTL-M1
- + LUNA2000-10-S0



Scan the code to learn more

◆ PV Only Scenario



Residential PV system in Silesian Voivodeship, Poland

Capacity: 7.5 kWp

System Configuration

- + SUN2000-6KTL-M1



Scan the code to learn more

◆ PV+ESS Scenario



Residential PV system in Aquila Game Reserve, South Africa

Capacity: 11 kWp

System Configuration

- + SUN2000-5KTL-M1
- + SUN2000-6KTL-M1
- + LUNA2000-10-S0



Scan the code to learn more

◆ PV+ESS Scenario



Residential PV system in Ho Chi Minh, Vietnam

Capacity: 5 kWp

System Configuration

- + SUN2000-5KTL-L1
- + LUNA2000-5-S0
- + SUN2000-450W-P





Scan the code to learn more



Copyright © 2023 Huawei Digital Power Technologies Co., Ltd. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Digital Power Technologies Co., Ltd.

Trademark Notice

 , HUAWEI, and  are trademarks or registered trademarks of Huawei Technologies Co., Ltd. Other trademarks, product, service and company names mentioned are the property of their respective owners.

General Disclaimer

The information in this document may contain predictive statements including, without limitation, statements regarding the future financial and operating results, future product portfolio, new technology, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements. Therefore, such information is provided for reference purpose only and constitutes neither an offer nor an acceptance. Huawei Digital Power Technologies Co., Ltd. may change the information at any time without notice.

HUAWEI DIGITAL POWER TECHNOLOGIES CO., LTD.

Antuoshan Headquarters Towers, 33 Antuoshan 6th Road, Futian District, Shenzhen, P.R.C.
solar.huawei.com