

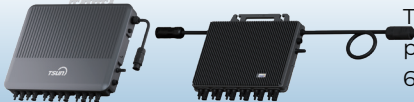
MORE SAFETY MORE POWER



ABOUT US

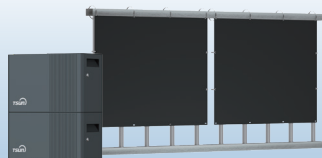
TSUN, a pioneer in micro solar and storage innovation, is dedicated to delivering safe, efficient, and affordable solutions to accelerate the global energy transition, making clean energy accessible to every home.

Innovator of High-Power Microinverters Worldwide



The first microinverter company in the world to launch the 3kW high power microinverter, now has the complete power range from 300W to 6000W. Significantly lower the per Watt cost of microinverter, makes microinverter affordable for much more installations.

Pioneer of Plug & Play Balcony Solar & Storage Solutions



The first in the world commercialized plug & play solar kits in 2019 and now extend the on-grid kit to plug & play storage kits.

Microinverter (MS/MX/MP)
Easy Solar Kit (ESK)
SolarCan (DCU)
Hybrid Microinverter (MH)
SolarTrunk (MSU)
PowerTrunk (MAU)

Global One-stop Solar & Storage Solution Supplier



With microinverters ranging from 300W to 6000W, along with balcony and residential solar & storage solutions, TSUN offers flexible capacity systems from 2 kWh to 20 kWh. Delivers a global one-stop solution to meet diverse needs in distributed energy applications.

Balcony Solar & Storage Solution
Residential Solar & Storage Solution
C&I Solar Solution

TSUN Globalization



Locations marked: London UK, Frankfurt am Main Germany, Suzhou/Shenzhen China, India, Thailand, Singapore, Belo Horizonte Brazil.



TSUN
MORE SAFETY MORE POWER

Headquarters TSUNESS Co., Ltd Suzhou/Shenzhen China	TSUNESS SOLAR GmbH Frankfurt am Main Germany	TSUNESS Brazil Branch Belo Horizonte Brazil
	TSUNESS UK LTD London United Kingdom	TSUNESS India Branch Delhi India
	TSUN Singapore PTE.LTD Singapore	TSUNESS Thailand Branch Bangkok Thailand









SOLUTION

Balcony Solar & Storage Solution

On Grid System

400 W-2000 W

Easy Solar Kit

Storage System

2 kWh-10 kWh

SolarCan(DC Coupled Unit) & Easy Solar Kit

Hybrid Microinverter & Stackable Battery Pack & Easy Solar Kit

SolarTrunk(Micro Hybrid Storage Unit) & Easy Solar Kit

PowerTrunk(Micro AC Coupled Unit) & Easy Solar Kit

Residential Solar & Storage Solution

On Grid System

2 kW-50 kW

Microinverter

Storage System

3~6 kW/5~20 kWh

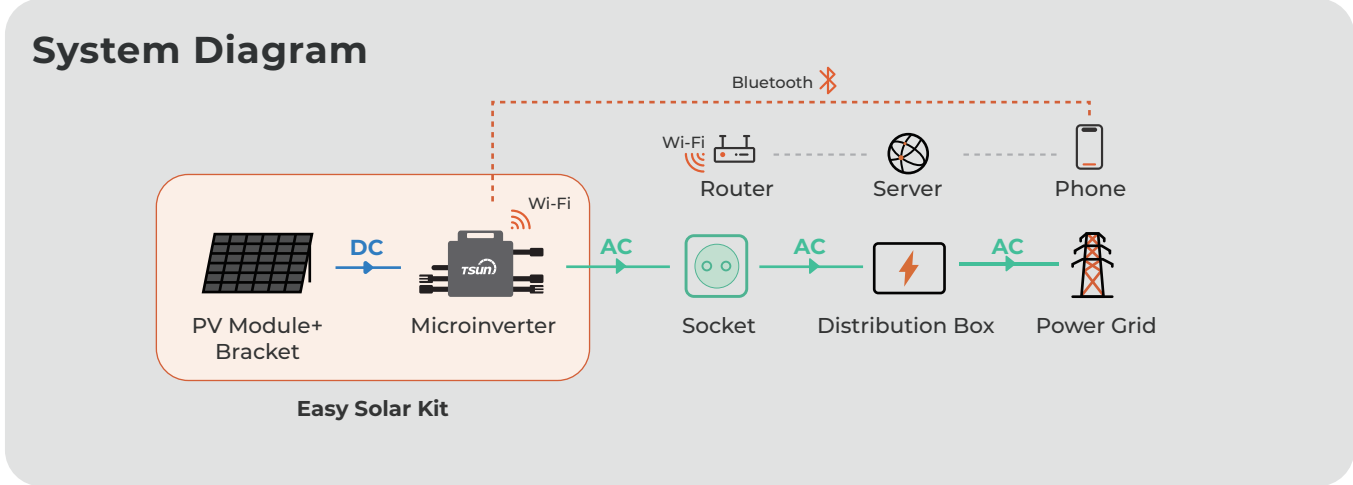
Microinverter & All-in-one AC Coupled Unit

C & I Solar System

>50 kW

On Grid System -- Microinverter Built-in RS485 & DTU

On Grid System — Easy Solar Kit



Multi-applications

Angle Adjustable

Plug & Play

Easy Solar Kit

All-in-one Box

Built-in WiFi, Bluetooth
APP Remote
Monitoring & Control

Easy Solar Kit, which integrates PV module, microinverter, DIY bracket and cables, is designed for a variety of applications, can be installed on balcony, garden, flat roof and even wall.

Related Products

ESK Balcony Air Angled (Flexible Module)

ESK Balcony Air Vertical (Flexible Module)

ESK Balcony Angled

ESK Balcony Vertical

ESK Pop-up

ESK Universal

ESK Transformer (Without PV Module)

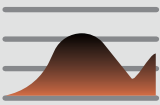
Storage System — SolarCan(DC Coupled Unit) & Easy Solar Kit



Stackable Battery



Time-of-use Control



Zero Export (Optional)



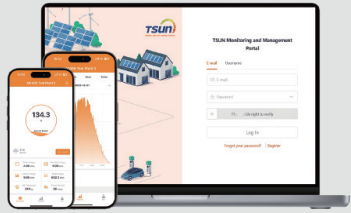
SolarCan

IP65

-20°C ~ +55°C
Working Temperature



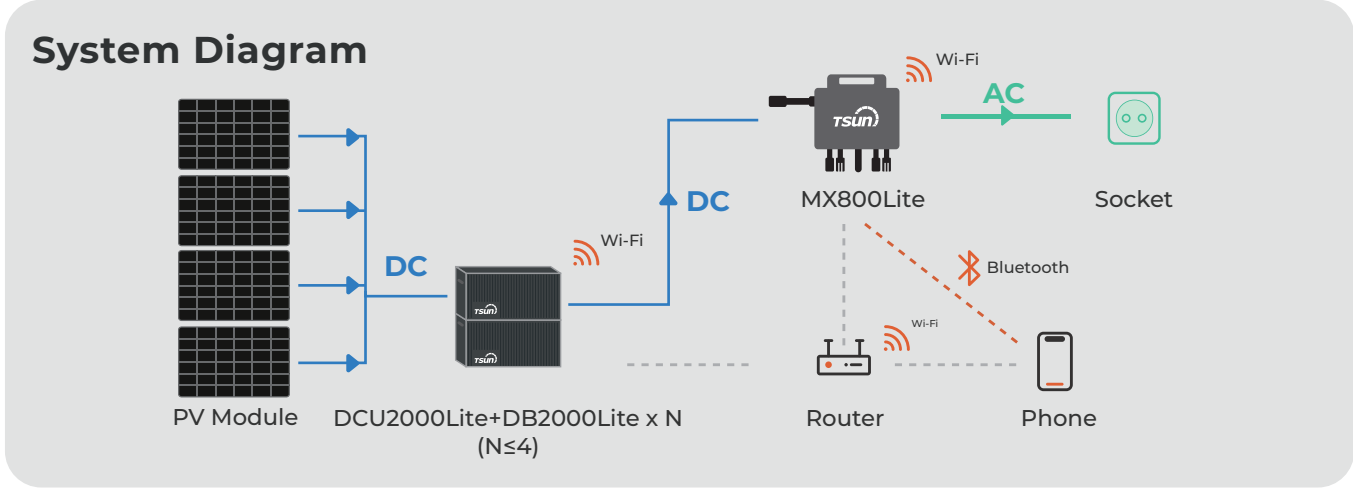
Built-in WiFi, Bluetooth
APP Remote
Monitoring & Control



The SolarCan is a key component of the plug & play storage system or micro storage system, it integrates both DC to DC inverter(pv charge and battery discharge function) and battery pack.

SolarCan, which is connected between solar modules and balcony microinverter, can store excess electrical energy in the battery and discharge it when needed.

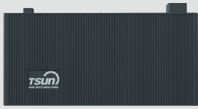
This solution, Solar Module + SolarCan + Balcony Microinverter, is typically used as a micro energy storage solution for small household, conventional balconies, courtyards, family carports, and other plug & play scenarios.



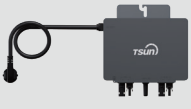
Related Products



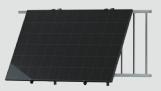
DCU2000Lite
(2 kWh, Max. 4 PV Modules)



DB2000Lite
(2 kWh)



MX800Lite
(AC 800W)



Easy Solar Kit
(Without Microinverter)



Smart Meter
(WiFi, CT Connected)



Power Meter
(RS485, CT Connected)

Storage System — Hybrid Microinverter & Stackable Battery Pack & Easy Solar Kit



Compatible with Various Types of Batteries

Charge Battery from PV Module & Grid

Zero Export (Optional)

Hybrid Microinverter

-40°C ~ +65°C Working Temperature

65°C

-40°C

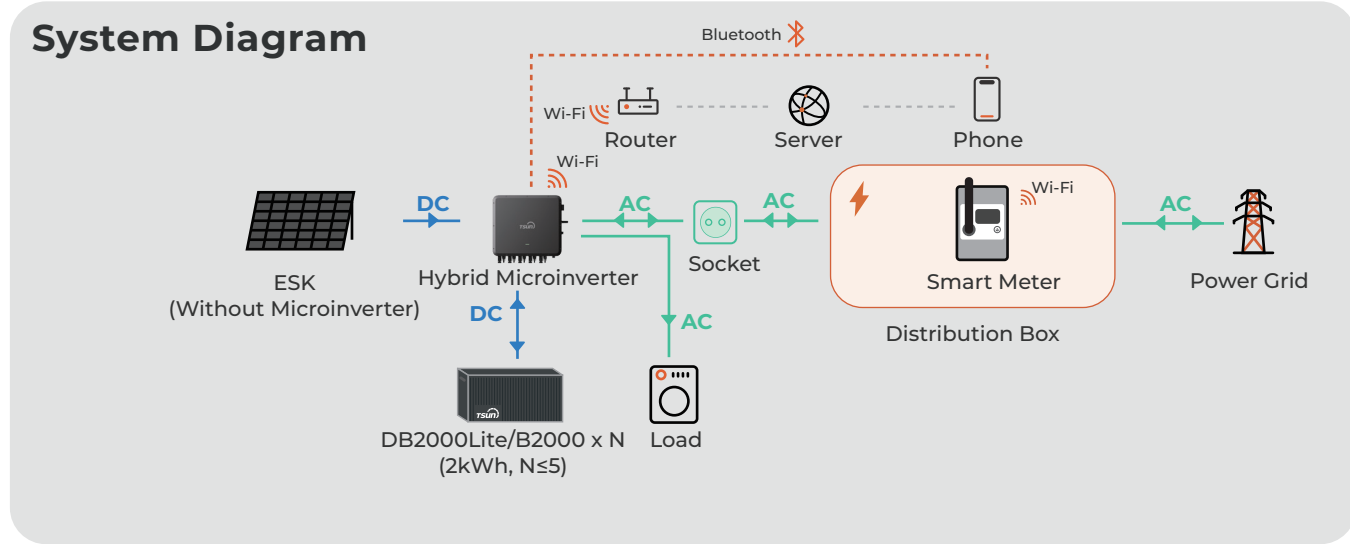
2000W Charging & Discharging Power

IP67

The hybrid microinverter serves as a pivotal component in micro hybrid energy storage systems, integrating grid-tied, off-grid, and energy storage functionalities.

A hybrid microinverter, interposed between solar modules and batteries, is capable of charging surplus electrical energy into batteries and discharging it as required.

The integrated configuration of solar modules, hybrid microinverters, and batteries serves as a versatile hybrid energy storage solution, predominantly deployed in diverse residential settings, including balconies, courtyards, and house carports.



Related Products

Hybrid Microinverter (MH)

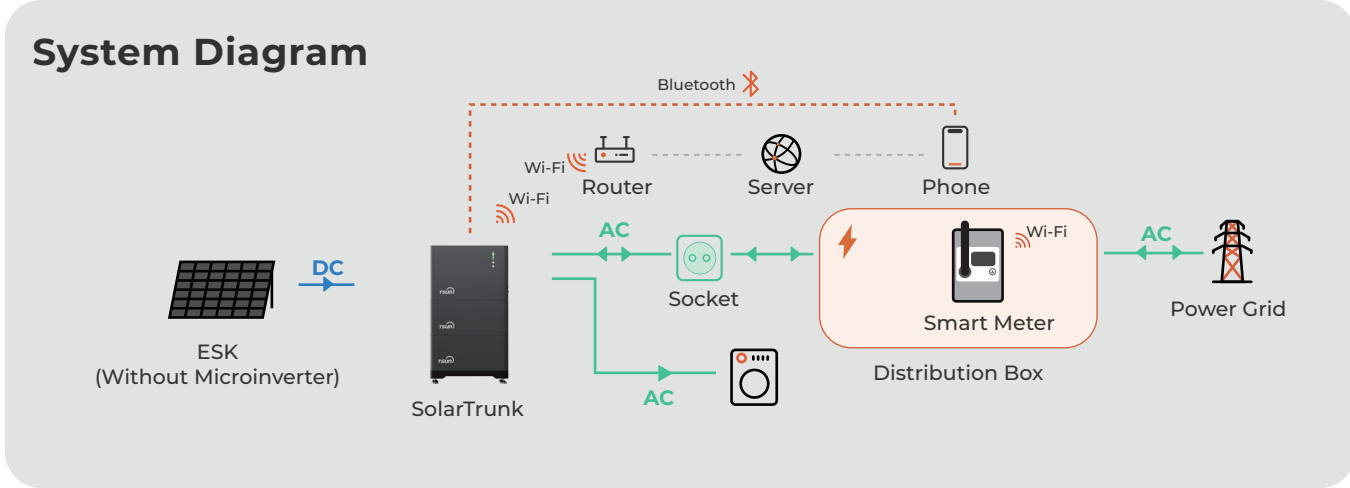
Easy Solar Kit (Without Microinverter)

Stackable Battery Pack (DB2000Lite/B2000, 2kWh)

Smart Meter (WiFi, CT Connected)

Power Meter (RS485, CT Connected)

SolarTrunk(Micro Hybrid Storage Unit) & Easy Solar Kit



All-in-one Unit

Charge Battery from PV Module & Grid

Zero Export

Maximum 1C Charging & Discharging Speed

SolarTrunk

IP65

-20°C ~ +55°C Working Temperature

Built-in WiFi, Bluetooth APP Remote Monitoring & Control

6000 Cycles

2000W Charging & Discharging Power

The SolarTrunk serves as a pivotal component in micro hybrid energy storage systems, integrating a hybrid inverter with grid-tied, off-grid, and energy storage functionalities, alongside a battery pack.

The SolarTrunk is designed to store surplus electrical energy within the battery and discharge it as required. This integrated configuration of solar modules and the SolarTrunk functions as a versatile hybrid energy storage solution, predominantly deployed in diverse residential settings, including balconies, courtyards, and house carparks.

Related Products

SolarTrunk (MSU)

Easy Solar Kit (Without Microinverter)

Stackable Battery Pack (B2000 2kWh)

Smart Meter (WiFi,CT Connected)

Power Meter (RS485, CT Connected)

PowerTrunk(Micro AC Coupled Unit) & Easy Solar Kit



All-in-one Unit

AC Coupled Solution

100%

Compatible with Existing Solar

Zero Export

Maximum 1C

Charging & Discharging Speed

PowerTrunk

Back up Mode

2000 W Output

-20°C ~ +55°C Working Temperature

55°C
-20°C

Built-in WiFi, Bluetooth APP Remote Monitoring & Control

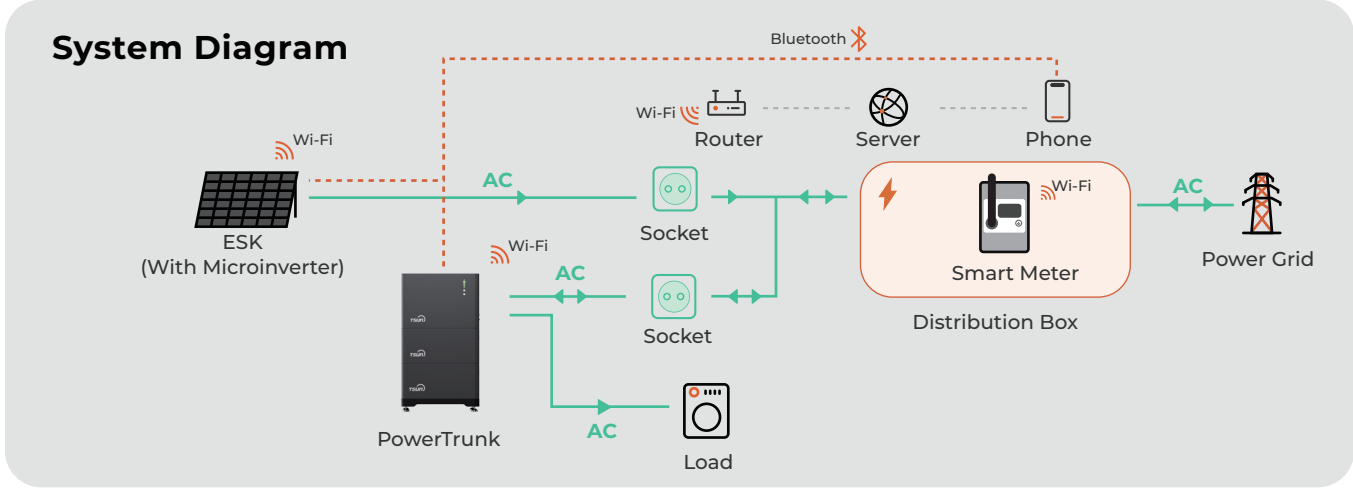
6000 Cycles

2000W Charging & Discharging Power

The PowerTrunk is a key component of the micro hybrid storage system, which integrates both the energy storage inverter and the battery pack.

PowerTrunk stores excess electricity generated by the PV system in its battery based on household self-use needs (Zero Export Mode), and converts it into AC power when required.

The PowerTrunk can also charge during low-tariff hours and discharge during peak tariff periods, according to the time and power settings configured by the user (time-of-use control mode). It also features an off-grid port, allowing it to provide backup power to critical loads during utility outages.



Related Products

PowerTrunk (MAU)

Easy Solar Kit (With Microinverter)

Stackable Battery Pack (B2000 2kWh)

Smart Meter (WiFi,CT Connected)

Power Meter (RS485, CT Connected)

On Grid System — Microinverter
Storage System — Microinverter & AC Coupled Unit



All-in-one Unit

Solar & Storage Independent Operation

Zero Export

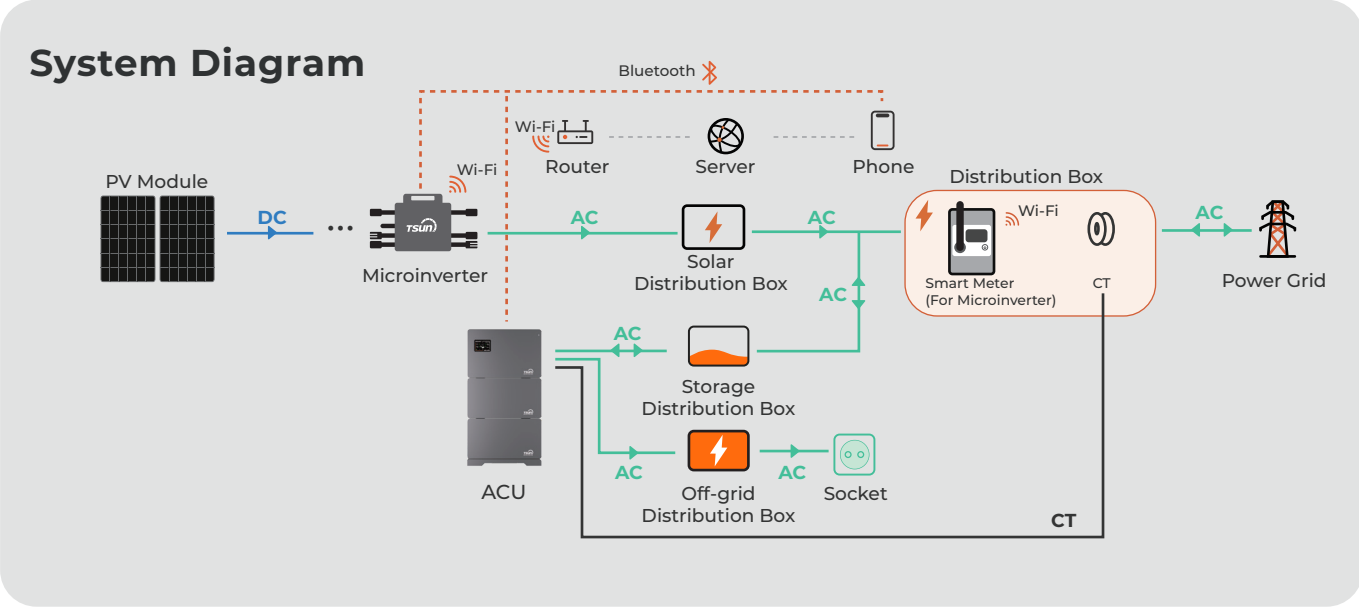
AC Coupled Unit

Low Voltage for the Whole Solution

Built-in WiFi, Bluetooth APP Remote Monitoring & Control

The ACU (AC Coupled Unit) serves as a pivotal component in energy storage systems, integrating an energy storage inverter with a battery pack.

Designed for household self-consumption needs (Zero Export Mode), the ACU stores surplus electricity generated by the PV system in its battery and converts it to alternating current (AC) power as required. Under the time-of-use control mode, it enables charging during low-tariff periods and discharging during peak tariff hours, aligned with user-configured time and power settings. Additionally, the unit is equipped with an off-grid port, ensuring power supply to critical household appliances during utility outages.



Related Products

Microinverter

AC Coupled Unit

Battery Pack (B100E-S)

Smart Meter (WiFi, CT Connected)

Power Meter (RS485, CT Connected)

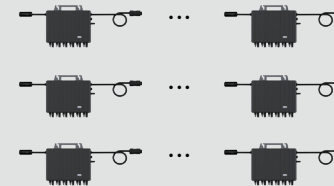
Data Transfer Unit

On Grid System — Microinverter built-in RS485 & DTU



Up to 64
Microinverters
(One DTU)

64



The Most Stable, Reliable,
Safe, and Timely

**Microinverter
(with RS485)**

Zero Export
(optional)



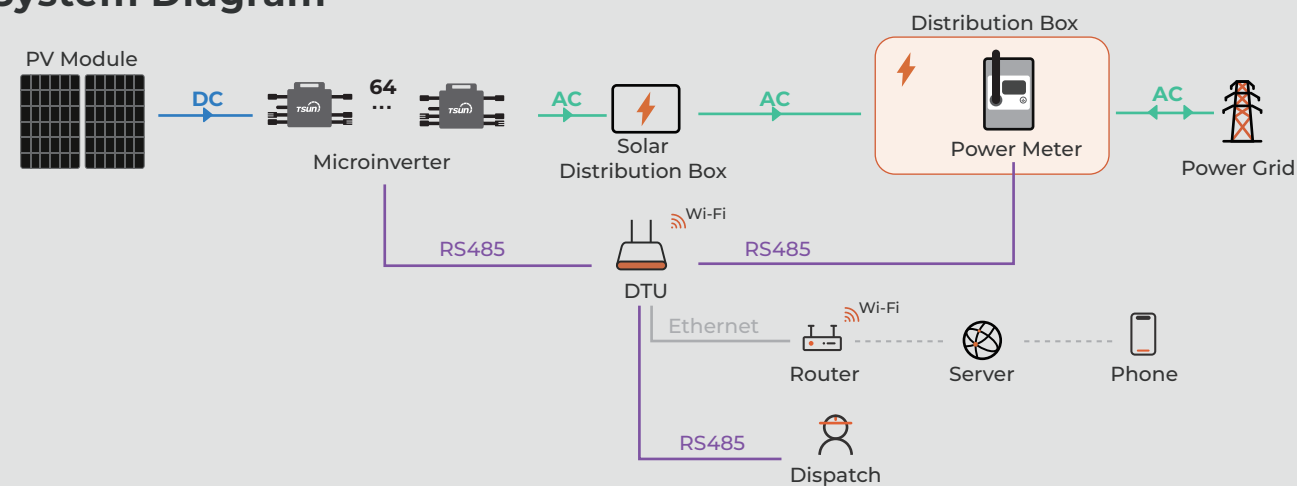
Low PV
Voltage Input



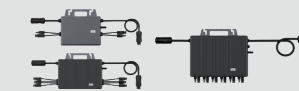
The microinverter integrated with RS485 and a Data Transfer Unit (DTU) constitutes a solar system solution tailored for commercial and industrial rooftop applications.

The microinverter performs the conversion of direct current (DC) to alternating current (AC), while the DTU establishes connectivity with up to 64 microinverters via RS485, facilitating data upload to a server. Concurrently, the DTU interfaces with an electricity meter to acquire grid-side parameters, enabling automatic adjustment of system output power. Additionally, it is capable of receiving external scheduling commands and correspondingly regulating the system's power output.

System Diagram



Related Products



Microinverter with RS485



Data Transfer Unit

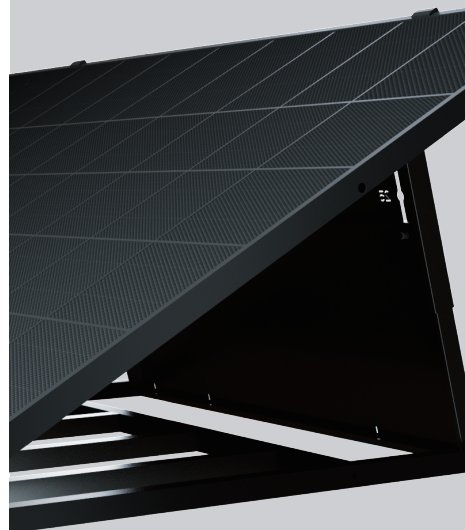


Power Meter
(RS485, CT Connected)

Make Safety
Affordable



Make PV
Scenarios Flexible



Make Energy
Efficient



PRODUCT

Microinverter

GEN 3 1-in-1
GEN 3 2-in-1
GEN 3 4-in-1

GEN 3 6-in-1
TITAN

Easy Solar Kit

ESK Balcony Air Vertical
ESK Balcony Air Angled
ESK Balcony Vertical
ESK Balcony Angled

ESK POP-UP
ESK Universal
ESK Transformer

Micro Storage System

SolarCan(DC Coupled Unit)
Hybrid Microinverter

SolarTrunk(Micro Hybrid Storage Unit)
PowerTrunk(Micro AC Coupled Unit)

Residential Storage System

AC Coupled Unit

Monitoring & Accessory

Data Transfer Unit
Power Meter

Smart Meter



GEN3 Microinverter 1-in-1 (300W-500W)

Daisy-chain/Trunk Cable/Balcony



Daisy-chain



Trunk cable/Balcony



Built-in WiFi, Bluetooth
APP Remote
Monitoring & Control



Peak Efficiency
up to 96.7%

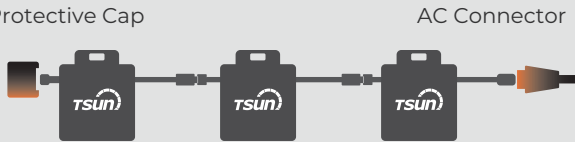


Plug & Play
Installation

✓☰Daisy-chain



Protective CapAC ConnectorAC Extension CableRS485 Cable



Protective CapAC Connector

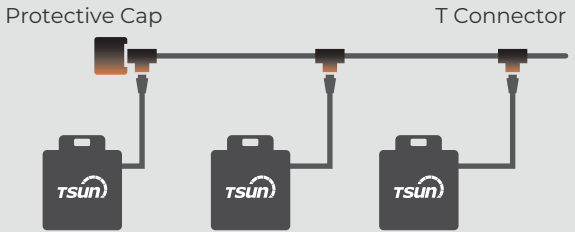
☑☰Trunk cable



T ConnectorTrunk Cable ConnectorToolProtective Cap



RS485 Cable



Protective CapT Connector

☑☰Balcony



5m AC End Cable with
Schuko Plug
(10m/15m Optional)



Installation Kit



5m AC End Cable with
Schuko Plug
(10m/15m Optional)

-  Standard Accessories
-  Optional Accessories

Model	TSOL-MS300	TSOL-MS350	TSOL-MS400	TSOL-MX400	TSOL-MX450	TSOL-MX500
Input (DC)						
Recommended Module Power (Wp)	300 ~ 550+			300 ~ 600+		
Quantity of PV Module	1			1		
Start up Voltage per Input@Rated Condition (V)	22			22		
MPPT Voltage Range per Input (V)	16 ~ 60			16 ~ 60		
Max. Input Voltage per Input (V)	60			60		
Short-current (A)	20			20		
Max. Input Current per Input (A)	14			14		
Quantity of MPPT	1			1		
Quantity of DC Inputs	1			1		
Output (AC)						
Nominal Continous Output Power (W)	300	350	400	400	450	500
Max Output Current (A)	1.45	1.59	2	2	2.25	2.5
Nominal Output Voltage (V)	220/230/240, L/N/PE					
Nominal Frequency (Hz)	50/60					
Power Factor	>0.99 Default, 0.8 Leading ... 0.8 Lagging					
Output Current Harmonic Distortion	<3%					
Maximum Units per 12AWG Branch*	23	20	17	17	15	14
Maximum Units per 10AWG Branch*	31	26	23	23	20	18
Efficiency						
Peak Inverter Efficiency	96.7%					
EU Efficiency	96.5%					
Nominal MPPT Efficiency	99.9%					
Night Time Power Consumption	<50 mW					
Mechanical Data						
Dimensions (WxHxD mm)	164 x 225 x 30					
Weight (kg)(Daisy-chain)	2.1					
Weight (kg)(Trunk cable/Balcony)	1.75					
General Data						
Communication	Wi-Fi (Bluetooth), 2 x RS485(Optional)					
Cable/Assembling	AC Cable up to 1.45m (Daisy-chain)					
	AC Cable up to 0.5m with T Connector (Trunk cable)					
	AC Cable up to 0.5m (Balcony)					
Type of Isolation	HF Isolation					
Ingress Protection	IP67					
Cooling	Natural Convection					
Operating Ambient Temperature Range	-40 ~ +65°C (Derating of Over 50°C Ambient Temperature@ PV Input 30V)					
Relative Humidity	100%					
Max. Operating Altitude Without Derating (m)	2000					

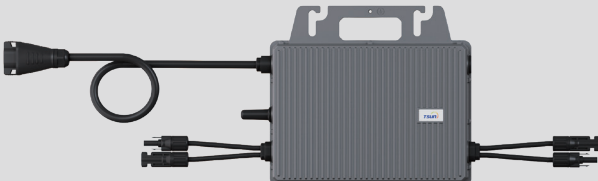
*For Daisy-chain & Trunk Cable

GEN3 Microinverter 2-in-1 (600W-1000W)

Daisy-chain/Trunk Cable/Balcony



Daisy-chain



Trunk Cable/Balcony



Built-in WiFi, Bluetooth
APP Remote
Monitoring & Control



Peak Efficiency
up to 96.7%



Plug & Play
Installation



Daisy-chain



Protective Cap



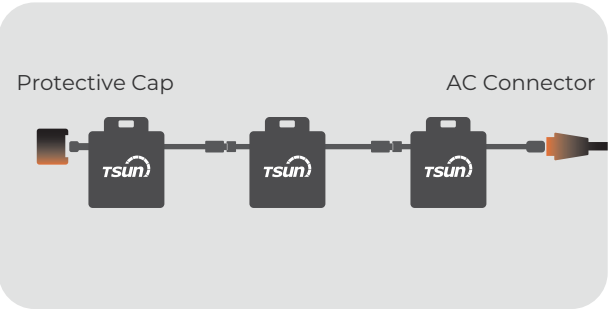
AC Connector



AC Extension
Cable



RS485 Cable





Trunk Cable



T Connector



Trunk Cable
Connector



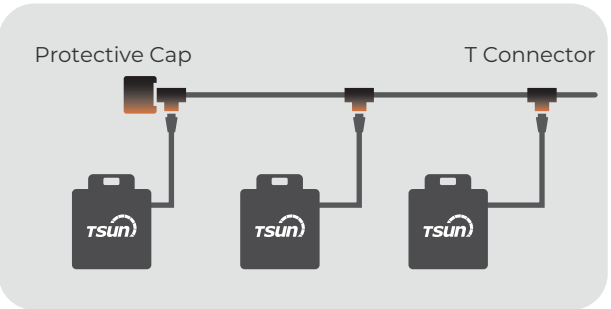
Tool



Protective Cap



RS485 Cable





Balcony

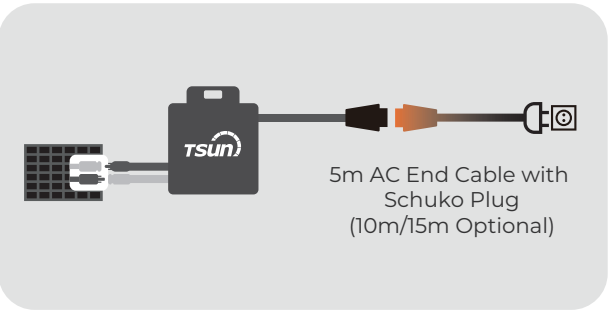


5m AC End Cable with
Schuko Plug
(10m/15m Optional)



Installation Kit





 Standard Accessories

 Optional Accessories

Model	TSOL-MS600	TSOL-MS700	TSOL-MS800	TSOL-MX800	TSOL-MX900	TSOL-MX1000
Input (DC)						
Recommended Module Power (Wp)	300 ~ 550+			300 ~ 600+		
Quantity of PV Module	1 to 2			1 to 2		
Start up Voltage per Input@Rated Condition (V)	22			22		
MPPT Voltage Range per Input (V)	16 ~ 60			16 ~ 60		
Max. Input Voltage per Input (V)	60			60		
Short-current (A)	20			20		
Max. Input Current per Input (A)	14			16		
Quantity of MPPT	2			2		
Quantity of DC Inputs	2			2		
Output (AC)						
Nominal Continous Output Power (W)	600	700	800	800	900	1000
Max Output Current (A)	3	3.19	4	4	4.5	5
Nominal Output Voltage (V)	220/230/240, L/N/PE					
Nominal Frequency (Hz)	50/60					
Power Factor	>0.99 Default, 0.8 Leading ... 0.8 Lagging					
Output Current Harmonic Distortion	<3%					
Maximum Units per 12AWG Branch*	12	10	9	9	8	7
Maximum Units per 10AWG Branch*	15	13	12	12	10	9
Efficiency						
Peak Inverter Efficiency	96.7%					
EU Efficiency	96.5%					
Nominal MPPT Efficiency	99.9%					
Night Time Power Consumption	<50 mW					
Mechanical Data						
Dimensions (WxHxD mm)	250 * 223 * 30			261 * 228 * 32		
Weight (kg)(Daisy-chain)	3.1			3.3		
Weight (kg)(Trunk Cable/Balcony)	2.6			2.8		
General Data						
Communication	Wi-Fi (Bluetooth), 2 x RS485(Optional)					
Cable/Assembling	AC Cable up to 2.43m (Daisy-chain)					
	AC Cable up to 0.5m with T Connector (Trunk Cable)					
	AC Cable up to 0.5m (Balcony)					
Type of Isolation	HF Isolation					
Ingress Protection	IP67					
Cooling	Natural Convection					
Operating Ambient Temperature Range	-40 ~ +65°C (Derating of over 50°C Ambient Temperature@ PV Input 30V)					
Relative Humidity	100%					
Max. Operating Altitude without Derating (m)	2000					

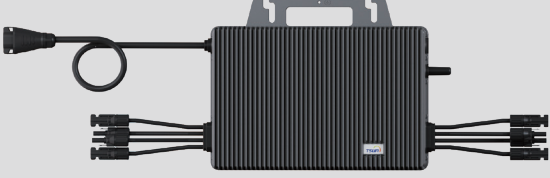
*For Daisy-chain & Trunk Cable

GEN3 Microinverter 4-in-1 (1600W-2250W)

Daisy-chain/Trunk Cable/Balcony



Daisy-chain



Trunk Cable/Balcony



Built-in WiFi, Bluetooth
APP Remote
Monitoring & Control



Peak Efficiency
up to 97.0%

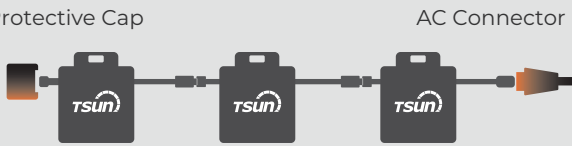


Plug & Play
Installation

✓☰ Daisy-chain



Protective Cap AC Connector AC Extension Cable RS485 Cable



Protective Cap AC Connector

☰ Trunk Cable

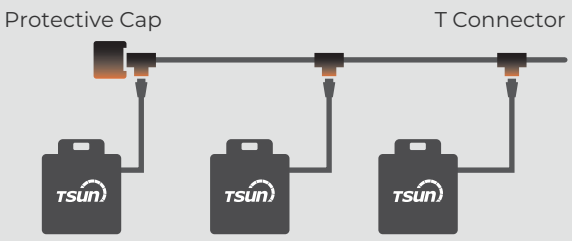


T Connector Trunk Cable Connector Tool Protective Cap

✓☰



RS485 Cable



Protective Cap T Connector

☰ Balcony

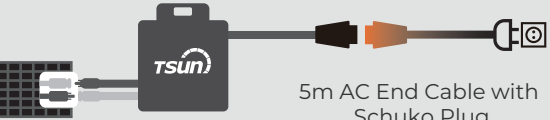


5m AC End Cable with
Schuko Plug
(10m/15m Optional)

✓☰



Installation Kit



5m AC End Cable with
Schuko Plug
(10m/15m Optional)

 Standard Accessories

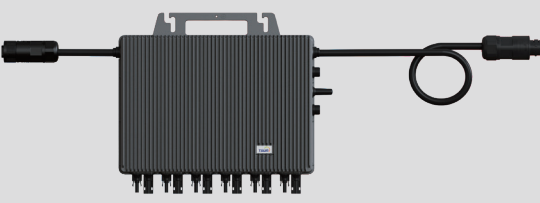
 Optional Accessories

Model	TSOL-MS1600	TSOL-MS1800	TSOL-MS2000	TSOL-MX2250
Input (DC)				
Recommended Module Power (Wp)	400 ~ 700+			
Quantity of PV Module	1 to 4			
Start up Voltage per Input@Rated Condition (V)	22			
MPPT Voltage Range per Input (V)	16 ~ 60			
Max. Input Voltage per Input (V)	60			
Short-current (A)	25			
Max. Input Current per Input (A)	18			
Quantity of MPPT	4			
Quantity of DC Inputs	4			
Output (AC)				
Nominal Continous Output Power (W)	1600	1800	2000	2250
Max Output Current (A)	8	9	10	11.25
Nominal Output Voltage (V)	220/230/240, L/N/PE			
Nominal Frequency (Hz)	50/60			
Power Factor	>0.99 Default, 0.8 Leading ... 0.8 Lagging			
Output Current Harmonic Distortion	<3%			
Maximum Units per 12AWG Branch*	4	4	3	3
Maximum Units per 10AWG Branch*	6	5	5	4
Efficiency				
Peak Inverter Efficiency	96.7% 97.0%			
EU Efficiency	96.5% 96.7%			
Nominal MPPT Efficiency	99.9%			
Night Time Power Consumption	<50 mW			
Mechanical Data				
Dimensions (WxHxD mm)	331 x 261 x 44			
Weight (kg)(Daisy-chain)	5.5			
Weight (kg)(Trunk Cable/Balcony)	5			
General Data				
Communication	Wi-Fi (Bluetooth), 2 x RS485(Optional)			
Cable/Assembling	AC Cable up to 2.52m (Daisy-chain)			
	AC Cable up to 0.5m with T Connector (Trunk Cable)			
	AC Cable up to 0.5m (Balcony)			
Type of Isolation	HF Isolation			
Ingress Protection	IP67			
Cooling	Natural Convection			
Operating Ambient Temperature Range	-40 ~ +65°C (Derating of over 50°C Ambient Temperature@ PV Input 30V)			
Relative Humidity	100%			
Max. Operating Altitude without Derating (m)	2000			

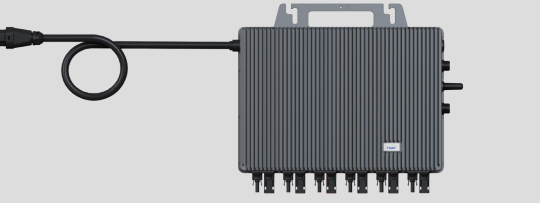
*For Daisy-chain & Trunk Cable

GEN3 Microinverter 6-in-1 (2400W-3300W)

Daisy-chain/Trunk Cable/Balcony



Daisy-chain



Trunk Cable/Balcony



Built-in WiFi, Bluetooth
APP Remote
Monitoring & Control



Peak Efficiency
up to 97.0%



Plug & Play
Installation

✓☰

Daisy-chain



Protective Cap



AC Connector



AC Extension
Cable



RS485 Cable



DC Cable



Protective Cap AC Connector

☒

Trunk Cable



T Connector



Trunk Cable
Connector



Tool



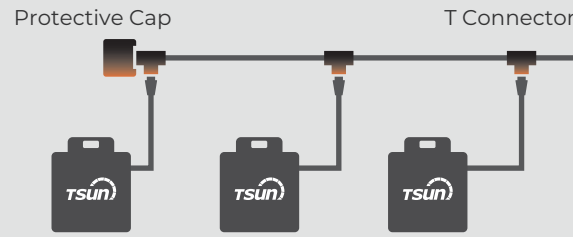
Protective
Cap



RS485 Cable



DC Cable



Protective Cap T Connector

☒

Balcony



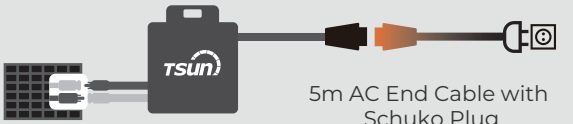
5m AC End Cable with
Schuko Plug
(10m/15m Optional)



Installation Kit



DC Cable



5m AC End Cable with
Schuko Plug
(10m/15m Optional)

☒ Standard Accessories

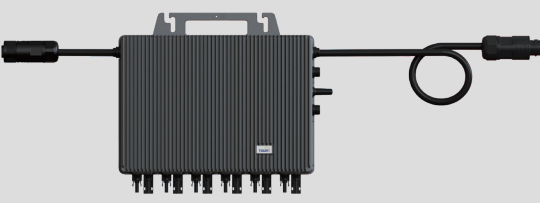
✓☰ Optional Accessories

Model	TSOL-MX2400D	TSOL-MX2500D	TSOL-MX2700D	TSOL-MX3000D	TSOL-MX3300D
Input (DC)					
Recommended Module Power (Wp)	400 ~ 700+				
Quantity of PV Module	1 to 6				
Start up Voltage per Input@Rated Condition (V)	22				
MPPT Voltage Range per Input (V)	16 ~ 60				
Max. Input Voltage per Input (V)	60				
Short-current (A)	25				
Max. Input Current per Input (A)	18				
Quantity of DC Inputs	6				
Output (AC)					
Nominal Continous Output Power (W)	2400	2500	2700	3000	3300
Max Output Current (A)	12	12.5	13.5	15	15.9
Nominal Output Voltage (V)	220/230/240, L/N/PE				
Nominal Frequency (Hz)	50/60				
Power Factor	>0.99 Default, 0.8 Leading ... 0.8 Lagging				
Output Current Harmonic Distortion	<3%				
Maximum Units per 12AWG Branch*	3	3	2	2	2
Maximum Units per 10AWG Branch*	4	4	3	3	3
Efficiency					
Peak Inverter Efficiency	97.0%				
EU Efficiency	96.7%				
Nominal MPPT Efficiency	99.9%				
Night Time Power Consumption	<50 mW				
Mechanical Data					
Dimensions (WxHxD mm)	380 x 313 x 49				
Weight (kg)(Daisy-chain)	8.2				
Weight (kg)(Trunk Cable/Balcony)	7.5				
General Data					
Communication	Wi-Fi (Bluetooth), 2 x RS485(Optional)				
Cable/Assembling	AC Cable up to 3.7m (Daisy-chain)				
	AC Cable up to 0.5m with T Connector (Trunk Cable)				
	AC Cable up to 0.5m (Balcony)				
Type of Isolation	HF Isolation				
Ingress Protection	IP67				
Cooling	Natural Convection				
Operating Ambient Temperature Range	-40 ~ +65°C (Derating of over 50°C Ambient Temperature@ PV Input 30V)				
Relative Humidity	100%				
Max. Operating Altitude without Derating (m)	2000				

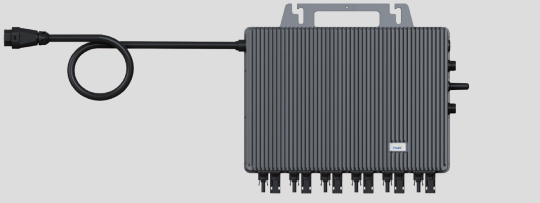
*For Daisy-chain & Trunk Cable

GEN3 Microinverter 6-in-1 (2400W-3300W)

Three-phase——Daisy-chain/Trunk Cable



Daisy-chain



Trunk Cable



Built-in WiFi, Bluetooth
APP Remote
Monitoring & Control



Peak Efficiency
up to 97.0%



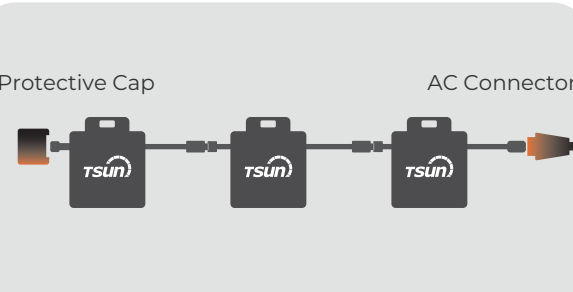
Plug & Play
Installation

✓☰

Daisy-chain



Protective Cap AC Connector AC Extension Cable RS485 Cable DC Cable



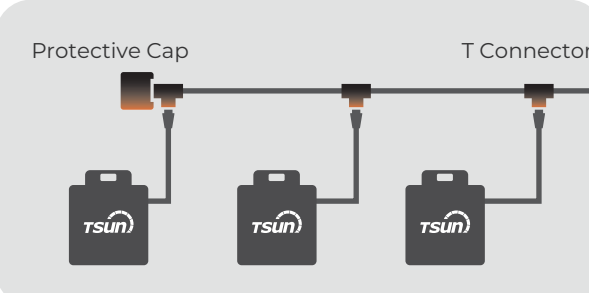
Protective Cap AC Connector

☑☰

Trunk Cable



T Connector Trunk Cable Connector Tool Protective Cap RS485 Cable DC Cable



Protective Cap T Connector

-  Standard Accessories
-  Optional Accessories

Model	TSOL-MX2400D-T	TSOL-MX2500D-T	TSOL-MX2700D-T	TSOL-MX3000D-T	TSOL-MX3300D-T
Input (DC)					
Recommended Module Power (Wp)			400 ~ 700+		
Quantity of PV Module			1 to 6		
Start up Voltage per Input@Rated Condition (V)			22		
MPPT Voltage Range per Input (V)			16 ~ 60		
Max. Input Voltage per Input (V)			60		
Short-current (A)			25		
Max. Input Current per Input (A)			18		
Quantity of DC Inputs			6		
Output (AC)					
Nominal Continous Output Power (W)	2400	2500	2700	3000	3300
Max Output Current (A)	12	12.5	13.5	15	15.9
Nominal Output Voltage (V)	220/230/240, L/N/PE				
Nominal Frequency (Hz)	50/60				
Power Factor	>0.99 Default, 0.8 Leading ... 0.8 Lagging				
Output Current Harmonic Distortion	<3%				
Maximum Units per 12AWG Branch*	9	9	8	7	6
Maximum Units per 10AWG Branch*	12	11	10	9	8
Efficiency					
Peak Inverter Efficiency			97.0%		
Nominal MPPT Efficiency			99.9%		
Night Time Power Consumption			<50 mW		
Mechanical Data					
Dimensions (WxHxD mm)			380 x 313 x 49		
Weight (kg)(Daisy-chain)			8.2		
Weight (kg)(Trunk cable)			7.5		
General Data					
Communication	Wi-Fi (Bluetooth), 2 x RS485				
Cable/Assembling	AC Cable up to 3.7m (Daisy-chain) AC Cable up to 0.5m with T Connector (Trunk cable)				
Type of Isolation	HF Isolation				
Ingress Protection	IP67				
Cooling	Natural Convection				
Operating Ambient Temperature Range	-40 ~ +65°C (Derating of over 50°C Ambient Temperature@ PV Input 30V)				
Relative Humidity	100%				
Max. Operating Altitude without Derating (m)	2000				

*For Daisy-chain & Trunk Cable

TITAN Microinverter (2250W-3000W)

MS3000/MP2250/MP3000



MP3000



MP2250/MS300



Built-in WiFi, Bluetooth
APP Remote
Monitoring & Control



Peak Efficiency
up to 97.2%



Plug & Play
Installation



High Power
Output



TITAN Microinverter



AC Connector

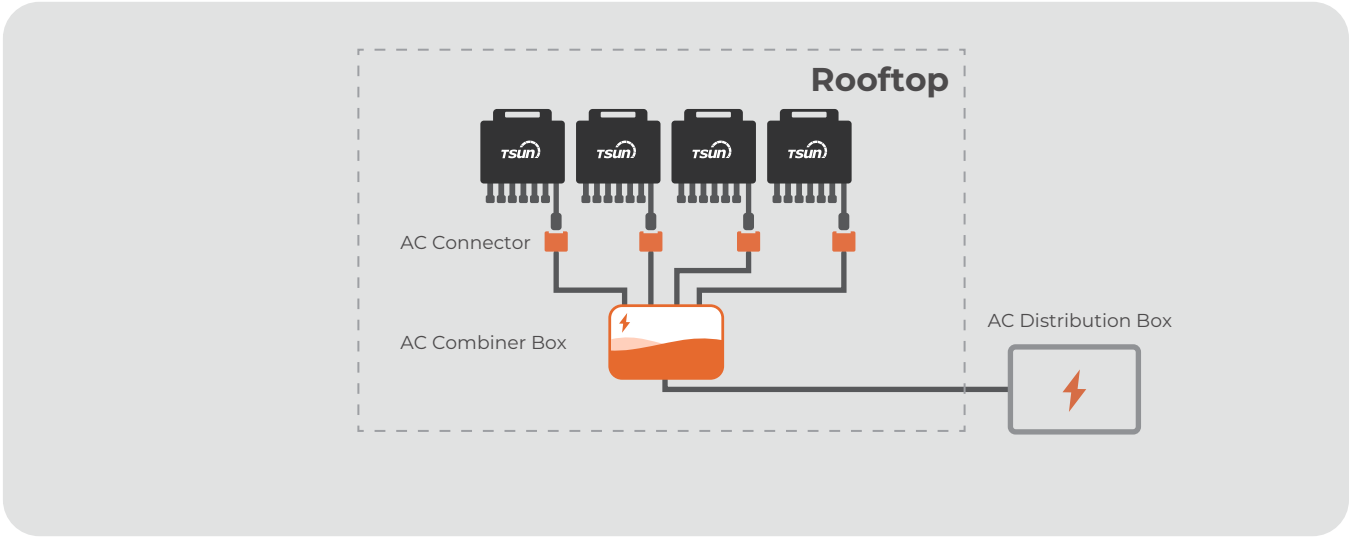




DC Cable



AC Combiner Box



-  Standard Accessories
-  Optional Accessories

Model	TSOL-MS3000	TSOL-MP2250	TSOL-MP3000
Input (DC)			
Recommended Module Power (Wp)	300 ~ 600+	400 ~ 700+	400 ~ 700+
Quantity of PV Module	7 to 8	4	4 to 6
Start up Voltage per Input@Rated Condition (V)	24	22	22
MPPT Voltage Range per Input (V)	22 ~ 120	18 ~ 60	18 ~ 60
Max. Input Voltage per Input (V)	120	60	60
Short-current (A)	16	20	20
Max. Input Current per Input (A)	15	18.5	18.5
Quantity of MPPT	4	4	6
Quantity of DC Inputs	4	4	6
Output (AC)			
Nominal Continous Output Power (W)	3000	2250	3000
Max Output Current (A)	14	11	14
Nominal Output Voltage (V)	220/230/240, L/N/PE		
Nominal Frequency (Hz)	50/60		
Power Factor	>0.99 Default, 0.8 Leading ... 0.8 Lagging		
Output Current Harmonic Distortion	<3%		
Efficiency			
Peak Inverter Efficiency	97.2%	97.0%	97.1%
EU Efficiency	96.7%	96.5%	96.6%
Nominal MPPT Efficiency	99.9%		
Night Time Power Consumption	<1 W		
Mechanical Data			
Dimensions (WxHxD mm)	354 x 294 x 60		
Weight (kg)(Daisy-chain)	6.8	6.4	7.2
General Data			
Communication	Wi-Fi (Bluetooth)		
Cable/Assembling	AC Cable up to 0.2m		
Type of Isolation	Transformerless		
Ingress Protection	IP67		
Cooling	Natural Convection		
Operating Ambient Temperature Range	-25 ~ +65°C (Derating of over 50°C Ambient Temperature@ PV Input 30V)		
Relative Humidity	100%		
Max. Operating Altitude without Derating (m)	2000		

TITAN Microinverter (3680W-6000W)

MP3680/MP3750/MP4000/MP4600/MP5000/MP6000

3680W-6000W




Built-in WiFi, Bluetooth
APP Remote
Monitoring & Control


Peak Efficiency
up to 97.2%


Plug & Play
Installation


High Power
Output

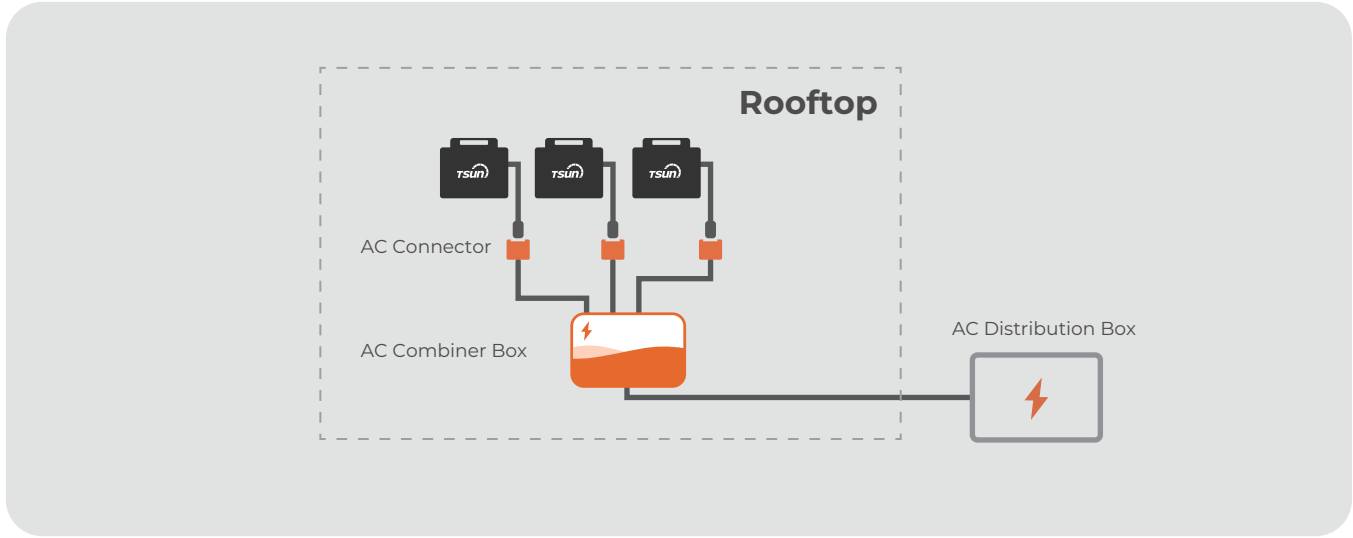
TITAN Microinverter


AC Connector


DC Cable


RS485 Cable


AC Combiner Box



-  Standard Accessories
-  Optional Accessories

Model	TSOL- MP3680	TSOL- MP3750	TSOL- MP4000	TSOL- MP4600	TSOL- MP5000	TSOL- MP6000
Input (DC)						
Recommended Module Power (Wp)	400 ~ 700+		400 ~ 700+		400 ~ 700+	
Quantity of PV Module	1 to 8		1 to 10		1 to 12	
Start up Voltage per Input@Rated Condition (V)	24		24		24	
MPPT Voltage Range per Input (V)	22 ~ 120		22 ~ 120		22 ~ 120	
Max. Input Voltage per Input (V)	120		120		120	
Short-current (A)	25		25		25	
Max. Input Current per Input (A)	20		20		20	
Quantity of MPPT	3		3		3	
Quantity of DC Inputs	6		6		6	
Output (AC)						
Nominal Continous Output Power (W)	3680	3750	4000	4600	5000	6000
Max Output Current (A)	16	18.75	20	23	25	30
Nominal Output Voltage (V)	220/230/240, L/N/PE					
Nominal Frequency (Hz)	50/60					
Power Factor	>0.99 Default, 0.8 Leading ... 0.8 Lagging					
Output Current Harmonic Distortion	<3%					
Efficiency						
Peak Inverter Efficiency	97.0%					
EU Efficiency	96.7%					
Nominal MPPT Efficiency	99.9%					
Night Time Power Consumption	<1 W					
Mechanical Data						
Dimensions (WxHxD mm)	471 x 371 x 70					
Weight (kg)(Daisy-chain)	11					
General Data						
Communication	Wi-Fi (Bluetooth) or 2 x RS485 (Optional)					
Cable/Assembling	AC Cable up to 0.2m					
Type of Isolation	Transformerless					
Ingress Protection	IP67					
Cooling	Natural Convection					
Operating Ambient Temperature Range	-25 ~ +65°C (Derating of over 50°C Ambient Temperature@ PV Input 30V)					
Relative Humidity	100%					
Max. Operating Altitude without Derating (m)	2000					

ESK-Balcony Air Vertical

Model	TSOL-ESK400-Air(V)	TSOL-ESK800-Air(V)
PV Module Parameter *		
Module Power(Pmpp @STC)	2 x 200	4 x 200
Max. Module Efficiency	20.4%	20.4%
Temp. Coef. (Power)	-0.34%/°C	-0.34%/°C
Color	Black	Black
AC Output Parameter		
Max. System Continous Output Power (W)**	400	800
Max. Output Current (A)	2	4
Nominal Output Voltage (V)***	220/230/240	
Nominal Frequency (Hz)***	50/60	
Power Factor	>0.99	
Output Current Harmonic Distortion	<3%	
Length of AC End Cable (m)***	5 (10, 15 Optional)	
Certification		
Solar Module	CE,TUV,UL,CQC,IEC 61215,IEC 61730	
Microinverter	CE-LVD,CE-EMC,CE-RED,VDE 4105,EN 50549-1	
Bracket	EN 10204:2017 , EN 1090-1:2009+A1: 2011	
Environmental Parameter		
Ingress Protection	IP67	
Operating Ambient Temperature Range	-25 °C ~ +65°C	
Relative Humidity	0 ~ 100%	
Max. Operating Altitude Without Derating (m)	2000	
Mechanical Parameter		
Weight (kg)	13	25
Package Dimensions (W×H×D mm)	1340 x 960 x 65	2 x 1340 x 960 x 65 /pcs
Warranty	12 years	

* The colour , brand and power of the solar module can be customized if the PV module is compatible to ESK system.
** The output power of the system can be limited to according to local regulations.
*** The AC voltage , frequency range and plug type may vary depending on specific country grid.



Balcony



Ultra Light



Waterproof



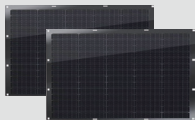
Plug & Play



Built-in WiFi,
Bluetooth
APP Remote
Monitoring & Control



Flexible Module,
Microinverter and
Accessories
Included



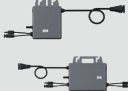
2 x 200W PV Module
4 x 200W PV Module



DC Cable
(2m, Only for ESK800)



AC End Cable
(5m)



Microinverter
(Balcony)

ESK-Balcony Air Angled

Model	TSOL-ESK400-Air(A)	TSOL-ESK800-Air(A)
PV Module Parameter *		
Module Power(Pmpp @STC)	2 x 200	4 x 200
Max. Module Efficiency	20.4%	20.4%
Temp. Coef. (Power)	-0.36%/°C	-0.36%/°C
Color	Black	Black
AC Output Parameter		
Max. System Continous Output Power (W)**	400	800
Max. Output Current (A)	2	4
Nominal Output Voltage (V)***	220/230/240	
Nominal Frequency (Hz)***	50/60	
Power Factor	>0.99	
Output Current Harmonic Distortion	<3%	
Length of AC End Cable***	5 (10, 15 Optional)	
Certification		
Solar Module	CE,TUV,UL,CQC,IEC 61215,IEC 61730	
Microinverter	CE-LVD,CE-EMC,CE-RED,VDE 4105,EN 50549-1	
Bracket	EN 10204:2017, EN 1090-1:2009+A1: 2011	
Environmental Parameter		
Ingress Protection	IP67	
Operating Ambient Temperature Range	-25 °C ~ +65°C	
Relative Humidity	0 ~ 100%	
Max. Operating Altitude Without Derating (m)	2000	
Mechanical Parameter		
Weight (kg)	13	25
Package Dimensions (W×H×D mm)	1340 x 960 x 65	2 x 1340 x 960 x 65 /pcs
Warranty	12 years	

* The colour , brand and power of the solar module can be customized if the PV module is compatible to ESK system.
** The output power of the system can be limited to according to local regulations.
*** The AC voltage , frequency range and plug type may vary depending on specific country grid.



Balcony



Ultra Light



Waterproof



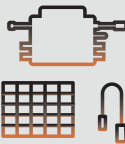
Angle Adjustable



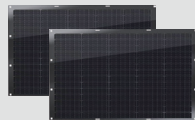
Plug & Play



Built-in WiFi,
Bluetooth
APP Remote
Monitoring & Control



Flexible Module,
Microinverter and
Accessories
Included



2 x 200W PV Module
4 x 200W PV Module



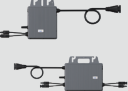
Bracket



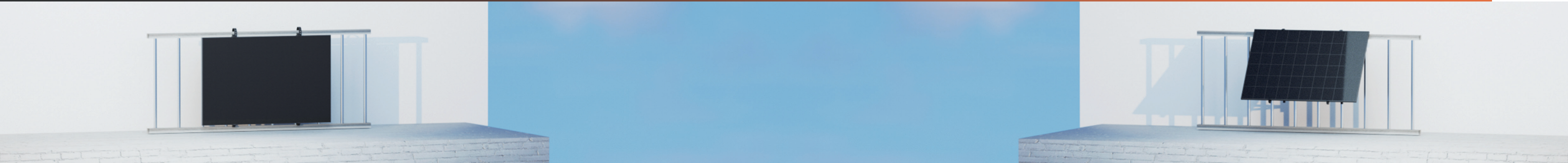
DC Cable
(2m, Only for ESK800)



AC End Cable
(5m)



Microinverter
(Balcony)

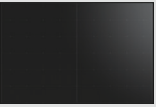


ESK-Balcony Vertical

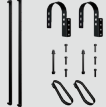
Model	TSOL-ESK400-BV	TSOL-ESK800-BV
PV Module Parameter *		
Module Power(Pmpp @STC)	430 (400 ~ 500 optional)	2 x 430 (400 ~ 500 optional)
Max. Module Efficiency	20.7% (up to 24%)	20.7% (up to 24%)
Temp. Coef. (Power)	-0.34%/°C	-0.34%/°C
Color	Black	Black
AC Output Parameter		
Max. System Continous Output Power (W)**	400	800
Max. Output Current (A)	2	4
Nominal Output Voltage (V)**	220/230/240	
Nominal Frequency (Hz)**	50/60	
Power Factor	>0.99	
Output Current Harmonic Distortion	<3%	
Length of AC End Cable (m)**	5 (10, 15 Optional)	
Certification		
Solar Module	CE,TUV,UL,CQC,IEC 61215,IEC 61730	
Microinverter	CE-LVD,CE-EMC,CE-RED,VDE 4105,EN 50549-1	
Bracket	EN 10204:2017, EN 1090-1:2009+A1: 2011	
Environmental Parameter		
Environmental Protection Rating	IP67	
Operating Ambient Temperature Range	-25 °C ~ +65°C	
Relative Humidity	0 ~ 100%	
Max. Operating Altitude Without Derating (m)	2000	
Mechanical Parameter		
Weight (kg)	27	54
Package Dimensions (W×H×D mm)	1722 x 1195 x 164	2 x 1722 x 1195 x 164/pcs
Warranty	12 years	

* The colour , brand and power of the solar module can be customized if the PV module is compatible to ESK system.
** The output power of the system can be limited to according to local regulations.
*** The AC voltage , frequency range and plug type may vary depending on specific country grid.





430W PV Module
2 x 430W PV Module
(400~500W Optional)



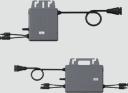
Bracket



DC Cable
(2m, Only for ESK800)



AC End Cable
(5m)



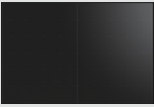
Microinverter
(Balcony)

ESK-Balcony Angled

Model	TSOL-ESK400-BA	TSOL-ESK800-BA
PV Module Parameter *		
Module Power(Pmpp @STC)	430 (400 ~ 500 optional)	2 x 430 (400 ~ 500 optional)
Max. Module Efficiency	20.7% (up to 24%)	20.7% (up to 24%)
Temp. Coef. (Power)	-0.36%/°C	-0.36%/°C
Color	Black	Black
AC Output Parameter		
Max. System Continous Output Power (W)**	400	800
Max. Output Current (A)	2	4
Nominal Output Voltage (V)***	220/230/240	
Nominal Frequency (Hz)***	50/60	
Power Factor	>0.99	
Output Current Harmonic Distortion	<3%	
Length of AC End Cable (m)***	5 (10, 15 Optional)	
Certification		
Solar Module	CE,TUV,UL,CQC,IEC 61215,IEC 61730	
Microinverter	CE-LVD,CE-EMC,CE-RED,VDE 4105,EN 50549-1	
Bracket	EN 10204:2017, EN 1090-1:2009+A1: 2011	
Environmental Parameter		
Ingress Protection	IP67	
Operating Ambient Temperature Range	-25 °C ~ +65°C	
Relative Humidity	0 ~ 100%	
Max. Operating Altitude Without Derating (m)	2000	
Mechanical Parameter		
Weight (kg)	27	54
Package Dimensions (W×H×D mm)	1722 x 1195 x 164	2 x 1722 x 1195 x 164 /pcs
Warranty	12 years	

* The colour , brand and power of the solar module can be customized if the PV module is compatible to ESK system.
** The output power of the system can be limited to according to local regulations.
*** The AC voltage , frequency range and plug type may vary depending on specific country grid.





430W PV Module
2 x 430W PV Module
(400~500W Optional)



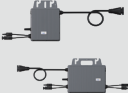
Bracket



DC Cable
(2m, Only for ESK800)



AC End Cable
(5m)



Microinverter
(Balcony)



Balcony



Wind-resistant
Snow-prevention



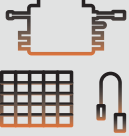
Waterproof



Plug & Play



Built-in WiFi,
Bluetooth
APP Remote
Monitoring & Control



Flexible Module,
Microinverter and
Accessories
Included



Balcony



Wind-resistant
Snow-prevention



Waterproof



Angle Adjustable



Plug & Play



Built-in WiFi,
Bluetooth
APP Remote
Monitoring & Control

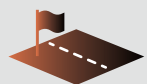


Flexible Module,
Microinverter and
Accessories
Included

ESK-Pop-up

Model	TSOL-ESK400-P	TSOL-ESK800-P
PV Module Parameter *		
Module Power(Pmpp @STC)	430 (400 ~ 500 optional)	2 x 430 (400 ~ 500 optional)
Max. Module Efficiency	20.7% (up to 24%)	20.7% (up to 24%)
Temp. Coef. (Power)	-0.34%/°C	-0.34%/°C
Color	Black	Black
AC Output Parameter		
Max. System Continous Output Power (W)**	400	800
Max. Output Current (A)	2	4
Nominal Output Voltage (V)**	220/230/240	
Nominal Frequency (Hz)**	50/60	
Power Factor	>0.99	
Output Current Harmonic Distortion	<3%	
Length of AC End Cable (m)**	5 (10, 15 Optional)	
Certification		
Solar Module	CE,TUV,UL,CQC,IEC 61215,IEC 61730	
Microinverter	CE-LVD,CE-EMC,CE-RED,VDE 4105,EN 50549-1	
Bracket	EN 10204:2017, EN 1090-1:2009+A1: 2011	
Environmental Parameter		
Ingress Protection	IP67	
Operating Ambient Temperature Range	-25 °C ~ +65°C	
Relative Humidity	0 ~ 100%	
Max. Operating Altitude Without Derating (m)	2000	
Mechanical Parameter		
Weight (kg)	29	58
Package Dimensions (W×H×D mm)	1724 x 1164 x 90	2 x 1724 x 1164 x 90 /pcs
Warranty	12 years	

* The colour , brand and power of the solar module can be customized if the PV module is compatible to ESK system.
** The output power of the system can be limited to according to local regulations.
*** The AC voltage , frequency range and plug type may vary depending on specific country grid.



Ground/
Flat Roof



Wind-resistant
Snow-prevention



Waterproof



Angle Adjustable



Plug & Play



Built-in WiFi,
Bluetooth
APP Remote
Monitoring & Control



Pre-Assembly





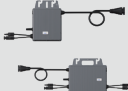
Bracket(Pre-Assembly, Foldable)
430W/2 x 430WPV Module
(400~500W Optional)



DC Cable
(2m, Only for ESK800)



AC End Cable
(5m)



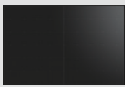
Microinverter
(Balcony)

ESK-Universal

Model	TSOL-ESK400-U	TSOL-ESK800-U
PV Module Parameter *		
Module Power(Pmpp @STC)	430 (400 ~ 500 optional)	2 x 430 (400 ~ 500 optional)
Max. Module Efficiency	20.7% (up to 24%)	20.7% (up to 24%)
Temp. Coef. (Power)	-0.36%/°C	-0.36%/°C
Color	Black	Black
AC Output Parameter		
Max. System Continous Output Power (W)**	400	800
Max. Output Current (A)	2	4
Nominal Output Voltage (V)***	220/230/240	
Nominal Frequency (Hz)***	50/60	
Power Factor	>0.99	
Output Current Harmonic Distortion	<3%	
Length of AC End Cable (m)***	5 (10, 15 Optional)	
Certification		
Solar Module	CE,TUV,UL,CQC,IEC 61215,IEC 61730	
Microinverter	CE-LVD,CE-EMC,CE-RED,VDE 4105,EN 50549-1	
Bracket	EN 10204:2017, EN 1090-1:2009+A1: 2011	
Environmental Parameter		
Ingress Protection	IP67	
Operating Ambient Temperature Range	-25 °C ~ +65°C	
Relative Humidity	0 ~ 100%	
Max. Operating Altitude Without Derating (m)	2000	
Mechanical Parameter		
Weight (kg)	27	54
Package Dimensions (W×H×D mm)	1722 x 1195 x 605	2 x 1722 x 1195 x 605 /pcs
Warranty	12 years	

* The colour , brand and power of the solar module can be customized if the PV module is compatible to ESK system.
** The output power of the system can be limited to according to local regulations.
*** The AC voltage , frequency range and plug type may vary depending on specific country grid.





430W PV Module
2 *430W PV Module
(400~500W optional)



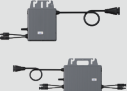
Bracket



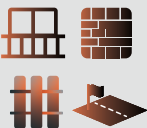
DC Cable
(2m, Only for ESK800)



AC End Cable
(5m)



Microinverter
(Balcony)



All Scenarios



Wind-resistant
Snow-prevention



Waterproof



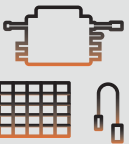
Angle Adjustable



Plug & Play



Built-in WiFi,
Bluetooth
APP Remote
Monitoring & Control



Flexible Module,
Microinverter and
Accessories
Included



ESK-Transformer

Model	TSOL-ESK400-T	TSOL-ESK800-T
-------	---------------	---------------

PV Module Parameter (Not Included)		
Reconmended Module Power(Wp)	300 ~ 700+	2 x 300 ~ 700+
Length of Solar Module (mm)	> 900	
Width of Solar Module (mm)	> 500; < 1150	
Thickness of Solar Module (mm)	30	

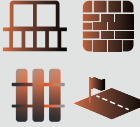
AC Output Parameter		
Max. System Continous Output Power (W)*	400	800
Max. Output Current (A)	2	4
Nominal Output Voltage (V)**	220/230/240	
Nominal Frequency (Hz)**	50/60	
Power Factor	>0.99	
Output Current Harmonic Distortion	<3%	
Length of AC End Cable (m)**	5 (10, 15 Optional)	

Certification		
Solar Module	CE,TUV,UL,CQC,IEC 61215,IEC 61730	
Microinverter	CE-LVD,CE-EMC,CE-RED,VDE 4105,EN 50549-1	
Bracket	EN 10204:2017, EN 1090-1:2009+A1: 2011	

Environmental Parameter		
Ingress Protection	IP67	
Operating Ambient Temperature Range	-25 °C ~ +65°C	
Relative Humidity	0 ~ 100%	
Max. Operating Altitude Without Derating (m)	2000	

Mechanical Parameter		
Weight (kg)	12	24
Package Dimensions (W×H×D mm)	885 x 360 x 108	2 x 885 x 360 x 108 /pcs
Warranty	12 years	

* The output power of the system can be adjusted according to local regulations.
** The AC voltage , frequency range and plug type may vary depending on specific country grid.



All Scenarios



Angle and Length Adjustable



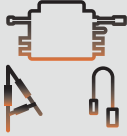
Waterproof



Plug & Play



Built-in WiFi, Bluetooth APP Remote Monitoring & Control



Microinverter, Bracket and Accessories Included



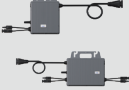
Bracket



DC Cable (2m, Only for ESK800)



AC End Cable (5m)



Microinverter (Balcony)

Easy Solar Kit



SolarCan (DC Coupled Unit)



Model	TSOL-DCU2000Lite
PV Input(PV)	
Recommended Module Power (Wp)	300 ~ 600+
Max. PV Input Power (W)	2400
Start up Voltage @Rated condition (V)	15
Max. Input Voltage per Input (V)	60
Operating Voltage Range per Input (V)	13 ~ 60
Short Circuit Current per Input (A)	40
Max. Input Current per Input (A)	32
Quantity of Inputs	2
No. of PV Modules per Input	2 (Parallel)
Battery (DC)	
Battery Type	LiFePO ₄
Battery Capacity (Wh)	2010
Max. expansion Capacity (kWh)	10.05 DCU2000Lite (2.01 kWh) + 4 x DB2000Lite (8.04 kWh)
Nominal Voltage (V)	51.2
Operating Voltage Range (V)	43.2 ~ 57.6
Nominal Discharge Power (W)	800
Max. Discharge Current (A)	30
Max. Charge Power (W)	2400 (When Configuring DB2000Lite)
Nominal Charge Current (A)	25
Battery Output (DC to Microinverter)	
Max. Output Power (W)	1200
Nominal output power (W)	800
Max. Current (A)	30
Output Voltage Range (V)	20 ~ 45

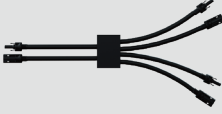
Model	TSOL-DCU2000Lite
Efficiency	
MPPT Efficiency	99.9%
Battery Charge/Discharge Efficiency	94.0%
Mechanical Data	
Dimensions (W×H×D mm)	380 x 180 x 224.5 (SolarCan) 380 x 180 x 203.7(DB2000Lite)
Weight (kg)	22 (SolarCan) 20(DB2000Lite)
General Data	
Communication	Server : WiFi (Bluetooth) +RS485
Ingress Protection	IP65
Cooling	Natural Convection
Charging Temperature Range	0~55°C*
Discharging temperature range	-20~55°C*
Relative Humidity	0-90%, Non Condensing
Max. Operating Altitude without Derating (m)	2000
Certification	CE, WEEE, UN38.3, ROHS, REACH

*Support -20°C startup and automatically self-heat the device for a certain time to the charge temperature range.





4 x Input DC Cable



Output DC Cable



Tool





Y Connector



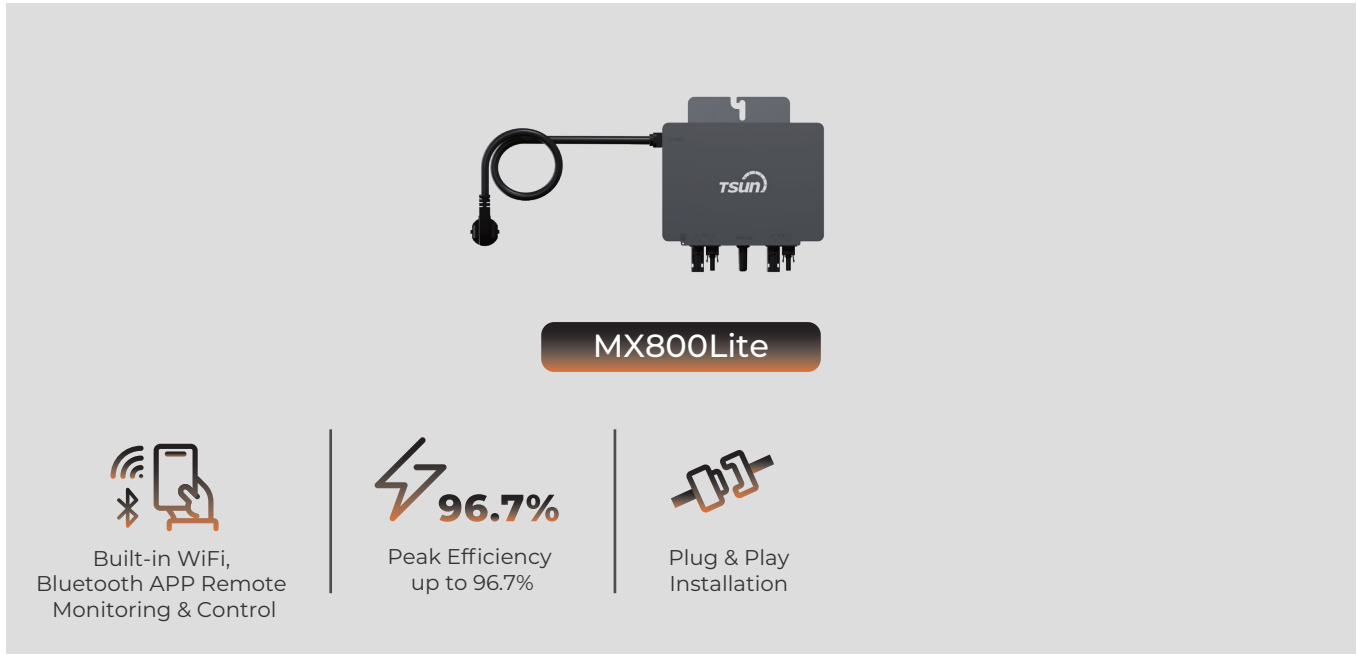
RS485 Cable

 Standard Accessories

 Optional Accessories

GEN3 Microinverter 2-in-1 (For Balcony)

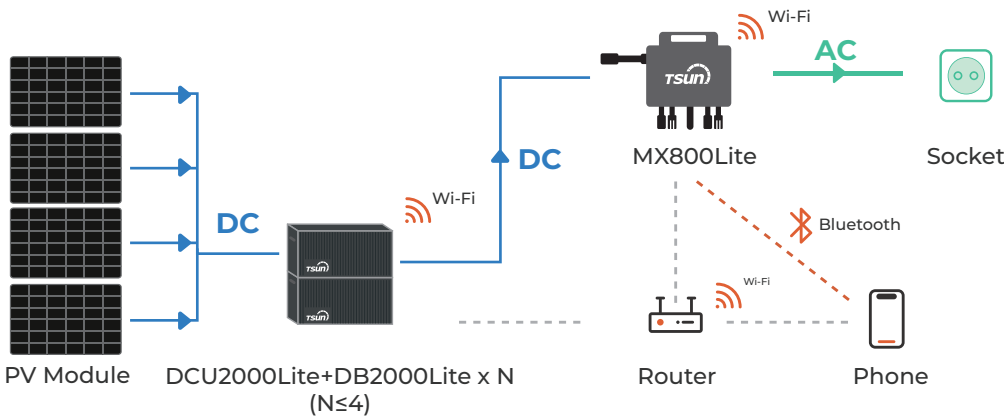
MX800Lite



Model	TSOL-MX800Lite
Input [DC]	
Recommended Module Power (Wp)	300 ~ 600+
Start up Voltage per Input@Rated condition (V)	22
MPPT Voltage Range per Input (V)	16 ~ 60
Max. Input Voltage per Input (V)	60
Short-current (A)	20
Max. Input Current per Input (A)	16
Quantity of DC Inputs	2
Output [AC]	
Nominal Continous Output Power (W)	800
Max. Output Current (A)	4
Nominal Continous Output Current (A)	3.64 @220V 3.48 @230V 3.33 @240V
Nominal Output Voltage (V)	220/230/240, L/N/PE
Nominal Frequency (Hz)	50/60
Power Factor	>0.99 Default, 0.8 Leading ... 0.8 Lagging
Output Current Harmonic Distortion	<3%
Efficiency	
Peak Inverter Efficiency	96.7%
EU Efficiency	96.5%
Nominal MPPT Efficiency	99.9%

Mechanical Data

Dimensions (WxHxD mm)	236 x 178.5 x 31
Weight (kg)	1.8
General Data	
Communication	WiFi (Bluetooth)
Cable/Assembling	Integrated 5m AC Cable Plug Wire, 0.75 mm², 18 AWG
Type of Isolation	HF Isolation
Ingress Protection	IP67
Cooling	Natural Convection
Operating Ambient Temperature Range	-40 ~ +65 °C (Derating of over 50°C Ambient Temperature@ PV Input 30V)
Relative Humidity	100%
Max. Operating Altitude without Derating (m)	2000



Hybrid Microinverter



Model	TSOL-MH2000	TSOL-MH1000
PV Input(PV)		
Recommended Module Power [Wp]	400 ~ 700+	400 ~ 700+
Quantity of PV Module	1 to 4	1 to 2
Start up Voltage @Rated Condition [V]	22	22
Operating Voltage Range per Input [V]	16~60	16~60
Max. Input Voltage per Input [V]	60	60
Short Circuit Current per Input [A]	25	25
Max. Input Current per Input [A]	18	18
Quantity of MPPTs	4	2
Quantity of DC Inputs [MC4]	4	2
Battery (DC)		
Battery Capacity (Wh)	2048	2048
Battery Type	LiFePO ₄	LiFePO ₄
Nominal Voltage (V)	51.2	51.2
Operating Voltage Range (V)	43.2 - 58.4	43.2 - 58.4
Max. Discharge Power (W)	2000	1000
Max. Discharge Current (A)	50	25
Max. Charge Power (W)	2000	1000
Max. Charge Current (A)	50	25

Model	TSOL-MH2000	TSOL-MH1000
AC Port (On-grid)		
Max. AC Output Power (W)	2000 or 800	1000 or 800
Max. AC Output Current (A)	10 or 4	5 or 4
Max. AC Input Power (W)	2000	1000
Max. AC Input Current (A)	11	5.5
Max. AC Input Current (A)	220/230/240, L/N/PE	
Nominal AC Frequency (Hz)	50/60	
Power Factor	>0.99 Default 0.8 Leading ... 0.8 Lagging	
THDI	≤3%@100% Load	
AC Port (Off-grid)		
Max. AC Output Power (W)	2000	1000
Max. AC Output Current (A)	10	5
Nominal AC Voltage (V)	220/230/240, L/N/PE	
Nominal AC Frequency (Hz)	50/60	
Switch Time [ms]	< 10	
Peak Output Apparent Power [VA]	150% 2s	
Efficiency		
Peak Inverter Efficiency	97.0%	
EU Efficiency	96.7%	
MPPT Efficiency	99.9%	
Battery Charge/Discharge Efficiency	95%/95%	
Mechanical Data		
Dimensions (W×H×D mm)	360 x 320 x 51	
Weight [kg]	8	
General Data		
Communication	WiFi (Bluetooth) + 2 x RS485	
Ingress Protecction	IP67	
Cooling	Natural Convection	
Operating Ambient Temperature Range	-40°C ~ +65°C (Derating of over 50°C Ambient Temperature@ PV Input 30V)	
Relative Humidity	0-95%, Non Condensing	
Max. Operating Altitude without Derating [m]	2000	




2 x RS485 Connector


Battery Connector


Installation Kit


AC End Cable (2m)

or


AC Connector (On-grid)


AC Connector (Off-grid)




DC Cable


AC End Cable (5m/10m/15m)


Battery Cable (TSUN Battery)


RS485 Cable (Dispatch)


RS485 Cable (Meter)


Power Strip

SolarTrunk (Micro Hybrid Storage Unit)



Model	TSOL-MSU2000	TSOL-MSU2000DE
PV Input(PV)		
Recommended Module Power (Wp)	400 ~ 700+	
Quantity of PV Module	1 to 4	
Max. PV Input Power (W)	2800+	
Start up Voltage @Rated condition (V)	22	
Operating Voltage Range per Input (V)	16 ~ 60	
MPPT Voltage Range @ Nominal Power (V)	27.7 ~ 54	
Max. Input Voltage per Input (V)	60	
Nominal Input Voltage (V)	42	
Short Circuit Current per Input (A)	25	
Max. Input Current per Input (A)	18	
Quantity of MPPTs	4	
Battery (DC)		
Battery Capacity (Wh)	2048	
Battery Type	LiFePO ₄	
Nominal Voltage (V)	51.2	
Operating Voltage Range (V)	43.2 - 58.4	
Max. Discharge Power (W)	2000	
Max. Charge Power (W)	2000	
Max. System Capacity (kWh)	10.24 MSU2000/MSU2000DE (2.048 kWh) + 4 x B2000 (8.192 kWh)	
AC Port (On-grid)		
Max AC Output Power (W)	2000	800
Max. AC Output Current (A)	10	4
AC Port (On-grid)		
Max. AC Input Power (W)	800	
Max. AC Input Current (A)	11	

Model	TSOL-MSU2000	TSOL-MSU2000DE
AC Port (On-grid)		
Nominal AC Voltage (V)	220/230/240, L/N/PE	
Nominal AC Frequency (Hz)	50/60	
Power Factor	>0.99 Default	0.8 Leading ... 0.8 Lagging
THDI	≤3%@100% Load	
AC Port (Off-grid) (Optional)		
Max. AC Output Power (W)	2000	
Max. AC Output Current (A)	10	
Nominal AC Voltage (V)	220/230/240, L/N/PE	
Nominal AC Frequency (Hz)	50/60	
Switch Time (ms)	< 20	
Efficiency		
Peak Inverter Efficiency	94.5%	
MPPT Efficiency	99.9%	
Battery Charge/Discharge Efficiency	94%/94%	
Consumption (Without Load)	< 25W	
Self-consumption (Device Shutdown)	< 1W	
Mechanical Data		
Dimensions (W×H×D mm)	455 x 320 x 280(SolarTrunk) 455 x 205 x 280(B2000)	
Net/Gross Weight (kg)	32/34.7 (Metal Housing)	
	26.8/29.5 (Plastic Housing) Die-cast Heat Sink	
Battrery Weight (kg)	17.2/19	
General Data		
Communication	Server : WiFi (Bluetooth)	
Extra Communication Ports	3 x RS485(Dispatch+Meter+Parallel) (Gen 3)	
Ingress Protection	IP65	
Cooling	Natural Convection	
Operating Ambient Temperature Range	-20 ~ +55 °C (Derating of over 50°C Ambient Temperature@ PV Input 30V)	
Relative Humidity	0-95%, Non Condensing	
Max. Operating Altitude without Derating (m)	2000	
Display	SOC Light	
Type of Isolation	Reinforced Insulation	
Protection Class	I	
Overvoltage Category	PV II ; AC III	





AC End Cable
(5 m) Tool 2 x RS485 Connector





DC Cable



AC End Cable
(10 m/15 m)



RS485 Cable
(Parallel)



RS485 Cable
(Dispatch)



RS485 Cable
(Meter)

PowerTrunk (Micro AC Coupled Unit)



Model	TSOL-MAU2000	TSOL-MAU2000DE
Battery (DC)		
Battery Capacity (Wh)	2048	
Battery Type	LiFePO ₄	
Nominal Voltage (V)	51.2	
Operating Voltage Range (V)	43.2 - 58.4	
Max. Discharge Power (W)	2000	
Max. Charge Power (W)	2000	
Max. System Capacity (kWh)	10.24 MAU2000/MAU2000DE (2.048 kWh)+ 4 x B2000 (8.192 kWh)	
AC Port (On-grid)		
Max AC Output Power (W)	2000	800
Max. AC Output Current (A)	10	4
Max. AC Input Power (W)	2000	
Max. AC Input Current (A)	11	
Nominal AC Voltage (V)	220/230/240, L/N/PE	
Nominal AC Frequency (Hz)	50/60	
Power Factor	>0.99 Default 0.8 Leading ... 0.8 Lagging	
THDI	≤3%@100% Load	
AC Port (Off-grid) (Optional)		
Max. AC Output Power (W)	2000	
Max. AC Output Current (A)	10	
Nominal AC Voltage (V)	220/230/240, L/N/PE	
Nominal AC Frequency (Hz)	50/60	
Switch Time (ms)	< 20	

Model	TSOL-MAU2000	TSOL-MAU2000DE
Efficiency		
Battery Charge/Discharge Efficiency	94%/94%	
Consumption (Without Load)	< 25W	
Self-consumption (Device Shutdown)	< 1W	
Mechanical Data		
Dimensions (W×H×D mm)	455 x 320 x 280(PowerTrunk) 455 x 205 x 280(B2000)	
Net/Gross Weight (kg)	32/34.7 (Metal Housing)	
	25.9/28.6 (Plastic Housing) Die-cast Heat Sink	
Battrery Weight (kg)	17.2/19	
General Data		
Communication	Server : WiFi (Bluetooth) / Battery: RS485	
Extra Communication Ports	3 x RS485(Dispatch+Meter+Parallel)	
Ingress Protection	IP65	
Cooling	Natural Convection	
Operating Ambient Temperature Range	-20 ~ +55 °C (Derating of over 50°C Ambient Temperature)	
Relative Humidity	0-95%, Non Condensing	
Max. Operating Altitude Without Derating (m)	2000	
Display	SOC Light	
Type of Isolation	Reinforced Insulation	
Protection Class	I	





AC End Cable
(2 m)



2 x RS485 Connector





AC End Cable
(5 m/10 m/15 m)



RS485 Cable
(Dispatch)



RS485 Cable
(Meter)



RS485 Cable
(Parallel)



Connector type

 Standard Accessories

 Optional Accessories

AC Coupled Unit



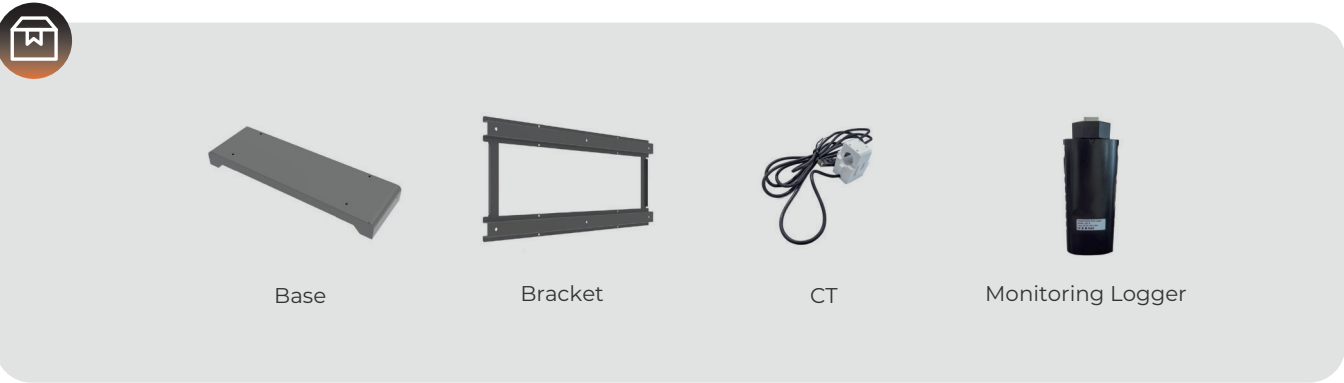
Model	TSOL-ACU3.0K	TSOL-ACU3.6K	TSOL-ACU4.0K	TSOL-ACU4.6K	TSOL-ACU5.0K	TSOL-ACU6.0K
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Battery Data						
Battery Type	LiFePO ₄					
Battery Capacity per Kit (kWh)	5.12					
Battery Voltage per Kit (V)	51.2					
Max. Battery Quantities per System	4 (Up to 20.48 kWh)					
Max. Charging Power (W)	3000	3600	4000	4600	5000	6000
Max. Charging/ Discharging Current (A)	60/60	72/72	80/80	92/92	100/100	120/120

AC Input & Output [On-grid]						
Rated Output Power (W)	3000	3600	4000	4600	5000	6000
Max. Output Power (VA)	3300	3680	4400	4600	5500	6000
Rated Output Current (A)	13	16	17.4	20	21.7	26
Max. Output Current (A)	14.3	16	19.1	20	21.7	28.7
Rated Output Voltage (V)	220/230/240, L/N/PE					
Rated Grid Frequency (Hz)	50/60					
Power Factor (cos ϕ)	0.8 leading ... 0.8 lagging					
Total Harmonic Distortion (THDi)	<3%					

AC Output (Back-up Mode)						
Rated Output Power (W)	3000	3600	4000	4600	5000	6000
Max. Output Current (A)	13	16	17.4	20	21.7	26
Rated Output Voltage (V)	220/230/240, L/N/PE					
Rated Output Frequency (Hz)	50/60					
Total Harmonic Distortion of Voltage	<3%					
Switch Time (ms)	<20					
Peak Output Apparent Power (VA)	3600VA, 60sec	4048VA, 60sec	4400VA, 60sec	5060VA, 60sec	5500VA, 60sec	6600VA, 60sec

Efficiency	
Max. Battery Charging/ Discharging Efficiency	95.0% / 95.0%
Protection	
Battery Input Reverse Polarity Protection	Integrated
AC Short Circuit Protection	Integrated
Overload Protection	Integrated
Surge Protection	Integrated
Residual Current Protection	Integrated
AC Overvoltage/Undervoltage Protection	Integrated
AC Overfrequency/Underfrequency Protection	Integrated
Over Temperature Protection	Integrated
Anti-islanding protection	Integrated
Interface	
Battery Connection Type	
AC Connection Type	Plug-in Connector
Communication	Wi-Fi / 3 x RS485 (4G Optional)
Protection	
Topology	Transformerless
Ingress Protection	IP65
Operating Temperature Range	-30 ~ +60 °C (Derating of over 45°C Ambient Temperature)
Ambient Humidity	0~100%
Altitude	4000m (>3000m Power Derating)
Noise (dBA)	<25
Cooling Method	Natural Convection
Dimensions (H x W x D mm)	650 x 428 x 207 (Inverter) 650 x 355 x 207 (Battery)
Weight (kg)	20 (Inverter)/50 (Battery)
Standard Warranty (Inverter)	5 years
Standard Warranty (Battery)	10 Years or 6000 Cycle 80% DoD (Whichever Comes First)



 Standard Accessories

TSUN Monitoring

TSUN Portal (Web)

Distributor + Installer

https://pro.talent-monitoring.com/

TSUN Smart (APP)

Distributor + Installer + End-user

TSUN Monitoring and Management Portal

E-mail Username

E-mail

Password

Log In

Forgot your password? Register

MS400 Test Plant 3

134.3

MS400 Test Plant 3

Year Total

2023-12-31

15:54

TSUN

Monitor Generation Data of Solar Plant

Power Generation Statistics

Module-level Monitoring System

Fast Network Configuration

Open API Monitoring Solution

Open API, data directly transmitted to the customer monitoring platform

01

Neutral Monitoring Solution

Provide logo rebranding solutions

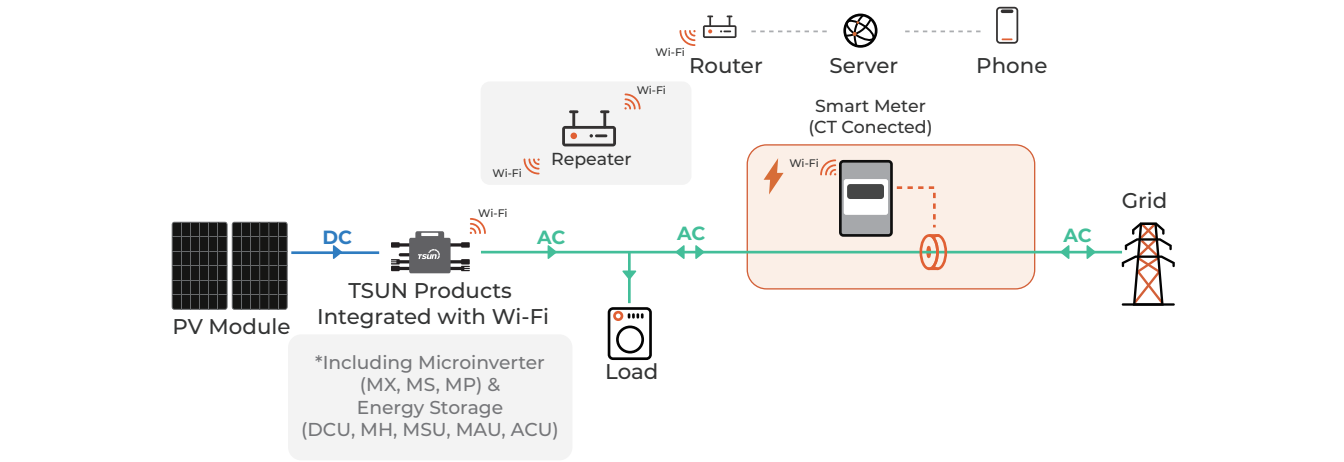
02

Optional Tuya Module

tuya

03

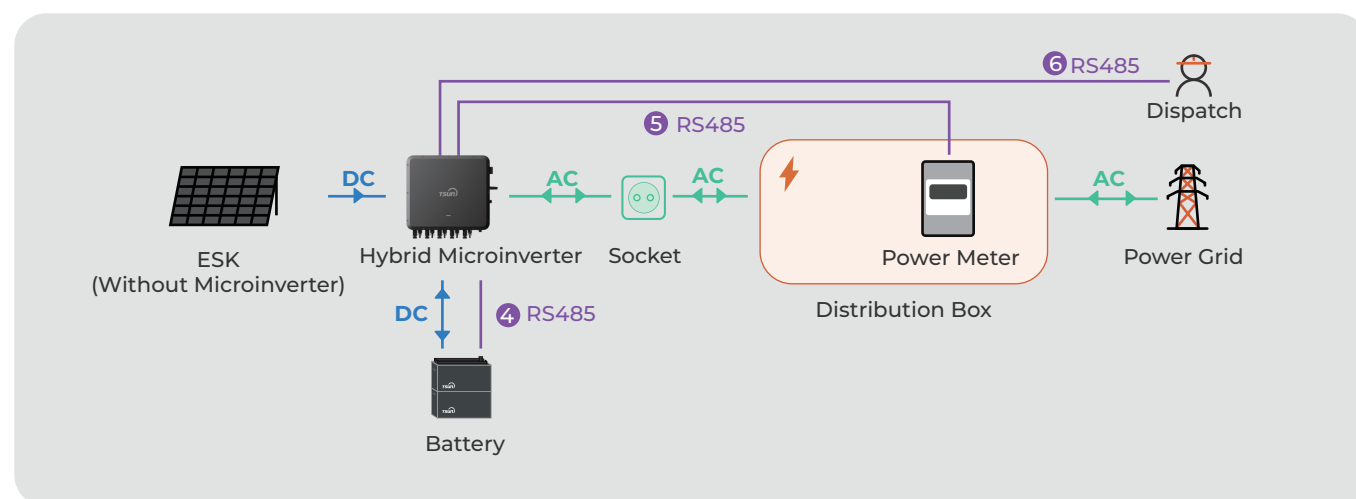
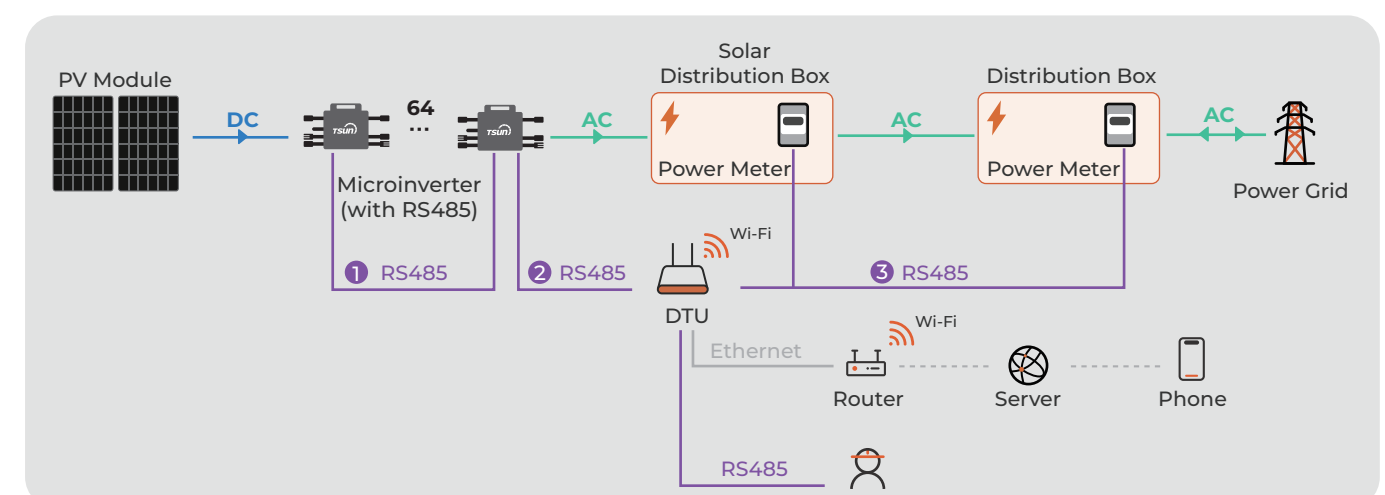
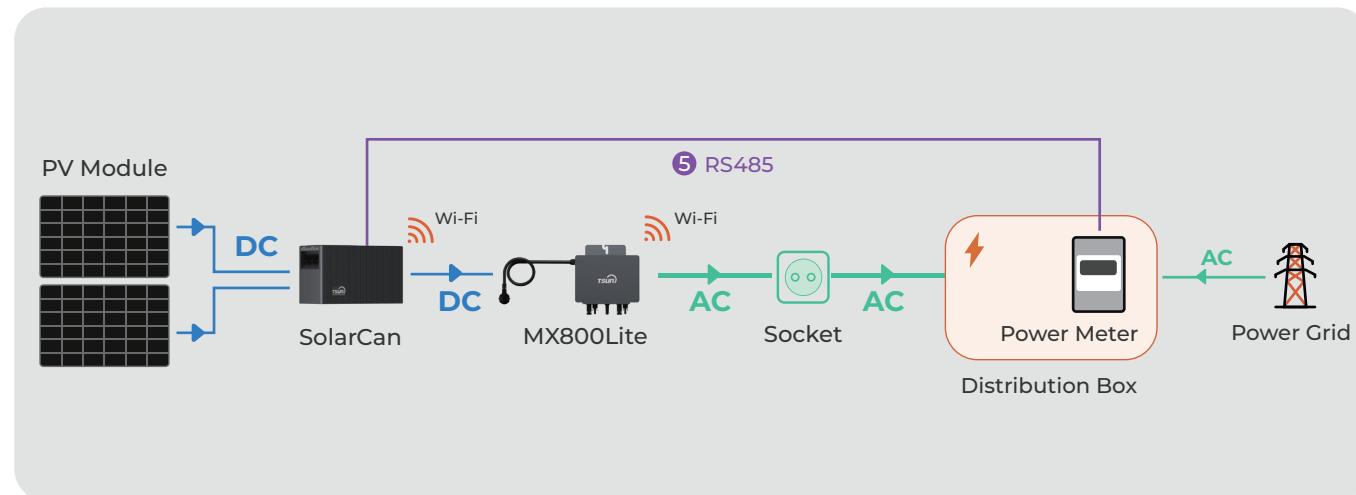
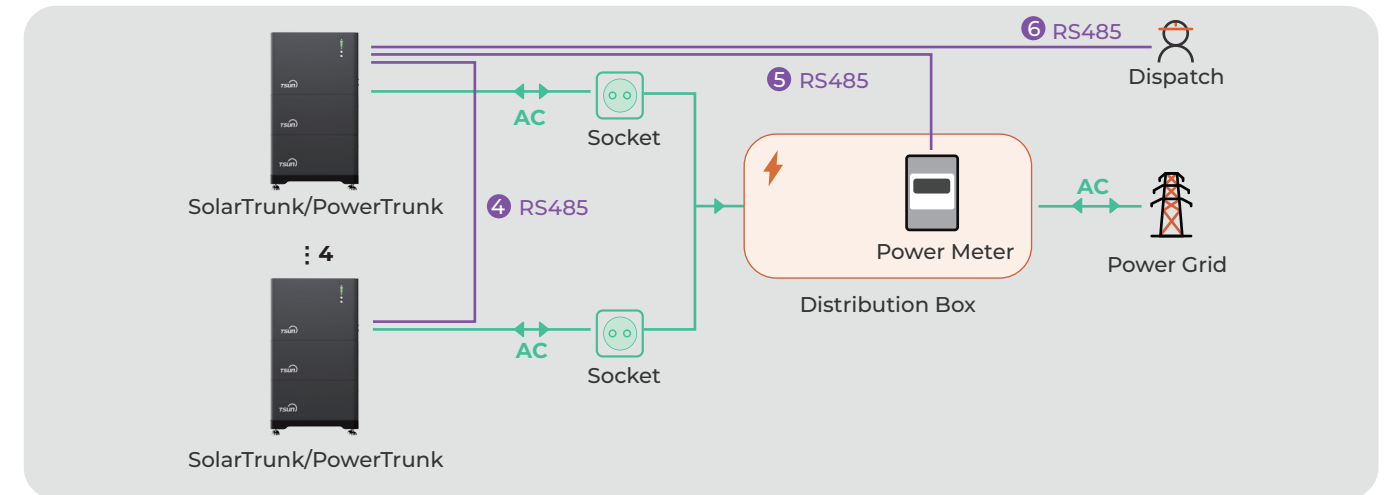
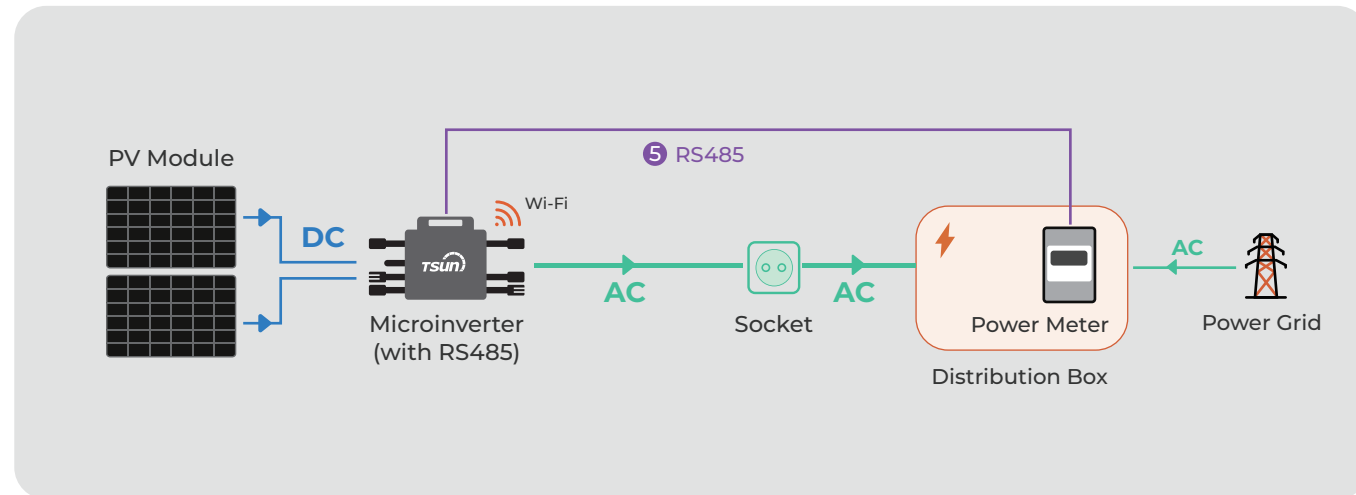
TSUN Monitoring (Wi-Fi)



Smart Meter (Wi-Fi, CT Connected)			
	Communication	PEMM-S100	MR3-D4-WE
PEEM-S100	Wireless Type	Wi-Fi	Wi-Fi
	Working Frequency	2.412 GHz~2.484 GHz	2.400 GHz ~ 2.484 GHz
	Data Interval	<200 ms	<200 ms
MR3-D4-WE	Meter		
	Rated Voltage	230 V	230 V/400 V
	AC Frequency	50/60 Hz	50/60 Hz
	Power Range	0~999999.99 kWh	0~999999.99 kWh
	Accuracy Class	1.0	1.0
	Consumption	≤3.5 W	≤4 W
	CT		
	Max. Current per Phase	100 A	100 A
	Cable Length of CT	2 m	2 m
	CT Type	φ16 mm	φ16 mm
	External Antenna		
	Length	1.5 m	1.5 m

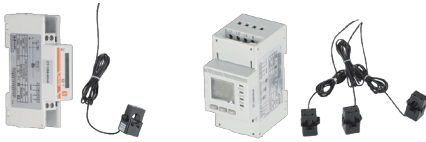
Smart Meter is a power control device for TSUN's products with Wi-Fi. It can collect the current grid output power status. At the same time, it is connected to the home network, communicates with TSUN's products with Wi-Fi under the same network, and controls the output power of the entire Solar & Storage system.

TSUN Monitoring (RS485)



TSUN Monitoring (RS485)

Power Meter (RS485, CT Connected)



Power Meter is a power control device for TSUN's products with RS485. It can collect the current grid output power status. At the same time, it is connected to the home network, communicates with TSUN's products with RS485 under the same network, and controls the output power of the entire Solar & Storage system.

Meter	ADL200N-CT	ADL400N-CT
Gride Type	Single-phase	Three-phase
Data Interval	<200 ms	<200 ms
Nominal Voltage	230 V	230 V/400 V
Frequency Range	45-65 Hz	
Input Current	80A, 120A, 200A, 300A	
Consumption	<0.2 VA	
Accuracy	±0.5%	
Sensor	CT	
Commnuication	RS485	

DTU



TSOL-MG3-MP

DTU is a power control device for RS485 microinverters. DTU can collect the AC grid data from the RS485 power meter. At the same time, DTU communicates with microinverters and controls the output power of the entire microinverter system.

Communication to Microinverter (RS485)	
Communication port	RS485
Maximum Distance	500m
Baud Rate	9600 bps
Connection Limit	64 Microinverters
Communication to Meter (RS485)	
Communication port	RS485
Maximum Distance	100m
Baud Rate	9600 bps (4800 to 19200 optional)
Communication to Router (WiFi or Ethernet)	
Communication port	WiFi / Ethernet
Maximum Distance (WiFi)	100 m
Ethernet Port	RJ45(802.3)

TSUN Monitoring (RS485)

RS485 Cable (Microinverter)



Connector Type



1 RS485 Cable (Microinverter to Microinverter)

Length	4 m / 10 m (Optional)
Cable Specification	0.5 mm²



Connector Type

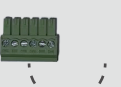


2 RS485 Cable (DTU to Microinverter)

Length	30 m / 50 m / 100 m
Cable Specification	0.5 mm²



Connector Type



3 RS485 Cable (DTU to Meter)

Length	5 m / 10 m / 15 m / 20m
Cable Specification	0.5 mm²



Connector Type



4 RS485 Cable (Parallel)

Length	8 m
Cable Specification	0.5 mm²



Connector type



5 RS485 Cable (Unit to Meter)

Length	10 m / 20 m / 30 m
Cable Specification	0.5 mm²



Connector type



6 RS485 Cable (Dispatch)

Length	10 m / 20 m / 30 m
Cable Specification	0.5 mm²

Accessory

Accessory (Trunk Cable Microinverter)

T Connector



Trunk Cable Connector



Tool



Protective Cap



T Connector

Brand	Projoy
Model	PECO-T-C
Rated Voltage	300V AC
Rated Current	45 A

Trunk Cable Connector

Brand	Projoy
Model	PECO-T-F / PECO-T-M
Rated Voltage	300V AC
Rated Current	45 A

Tool

Brand	Projoy
Model	PECO-U
Material	PC

Trunk Cable Connector

Brand	Projoy
Model	PECO-T-P
Material	PPO
Protection	IP68

Accessory (Daisy-chain Microinverter)

Protective Cap



AC Connector



AC Extension Cable



Protective Cap

Brand	Projoy	Exceedconn
Model	PECO-T-P	013-0001-0065
Material	PC	
Protection	IP67	

AC Connector

Brand	Projoy	Exceedconn	Exceedconn
Model	PECO-T-F	EN030-2028-1001	EN050-2236-00
Number of Contacts	3	3	5
Rated Voltage	300 V AC	250 V AC	500 V AC
Rated Current	45 A	32 A	32 A

AC Extension Cable

Length	2 m	2 m
Connector Brand	Projoy	Exceedconn
Cable Specification	12 AWG/10 AWG	12 AWG/10 AWG

Accessory

Accessory (Balcony Microinverter)											
AC End Cable	AC End Cable <table><tr><td>Length</td><td>5 m (10 m/15 m Optional)</td></tr><tr><td>Connector Brand</td><td>Projoy</td></tr><tr><td>Connector Model</td><td>PECO-B-F</td></tr><tr><td>Rated Current</td><td>15 A</td></tr></table>	Length	5 m (10 m/15 m Optional)	Connector Brand	Projoy	Connector Model	PECO-B-F	Rated Current	15 A		
Length	5 m (10 m/15 m Optional)										
Connector Brand	Projoy										
Connector Model	PECO-B-F										
Rated Current	15 A										
Installation Kit	Installation Kit <table><tr><td>Bracket</td><td>1 Pcs</td></tr><tr><td>Cushion Pad</td><td>1 Pcs</td></tr><tr><td>Screw</td><td>4 Pcs</td></tr><tr><td>Stainless Steel Tie</td><td>1 Pcs</td></tr><tr><td>Allen Wrench</td><td>1 Pcs</td></tr></table>	Bracket	1 Pcs	Cushion Pad	1 Pcs	Screw	4 Pcs	Stainless Steel Tie	1 Pcs	Allen Wrench	1 Pcs
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Cushion Pad	1 Pcs										
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Stainless Steel Tie	1 Pcs										
Allen Wrench	1 Pcs										

Accessory (SolarCan)			
Output Cable	Output Cable <table><tr><td>Length</td><td>1.8 m</td></tr></table>	Length	1.8 m
Length	1.8 m		
Y Connector	Y Connector <table><tr><td>Length</td><td>3 m</td></tr></table>	Length	3 m
Length	3 m		

Accessory (Hybrid Microinverter)											
AC End Cable	AC End Cable <table><tr><td>Length</td><td>2 m (5m/10 m/15 m Optional)</td></tr><tr><td>Connector Brand</td><td>Projoy</td></tr><tr><td>Connector Model</td><td>PECO-B-F</td></tr><tr><td>Rated Current</td><td>15 A</td></tr></table>	Length	2 m (5m/10 m/15 m Optional)	Connector Brand	Projoy	Connector Model	PECO-B-F	Rated Current	15 A		
Length	2 m (5m/10 m/15 m Optional)										
Connector Brand	Projoy										
Connector Model	PECO-B-F										
Rated Current	15 A										
Battery Connector	Battery Connector <table><tr><td>Rated Current</td><td>15 A</td></tr></table>	Rated Current	15 A								
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AC Connector (On-grid)	AC Connector (On-grid) <table><tr><td>Rated Current</td><td>15 A</td></tr></table>	Rated Current	15 A								
Rated Current	15 A										
AC Connector (Off-grid)	AC Connector (Off-grid) <table><tr><td>Rated Current</td><td>15 A</td></tr></table>	Rated Current	15 A								
Rated Current	15 A										
Battery Cable	Battery Cable (TSUN Battery) <table><tr><td>Length</td><td>3 m</td></tr></table>	Length	3 m								
Length	3 m										
Power Strip	Power Strip <table><tr><td>Rated Current</td><td>15 A</td></tr></table>	Rated Current	15 A								
Rated Current	15 A										

Accessory (SolarCan/SolarTrunk/PowerTrunk)

AC End Cable



Tool



AC End Cable (for SolarTrunk/PowerTrunk)	
Length	2m/5 m/10 m/15 m
Connector Brand	Projoy
Connector Model	PECO-B-F
Rated Current	15 A

DC Remover	
Length	156.8 mm
Brand	QC Solar
Material	PA66

Accessory (General)

DC Cable



DC Cable	
Length	2 m / 4 m / 6 m / 8 m
Connector Brand	QC Solar
Cable Specification	4 mm²

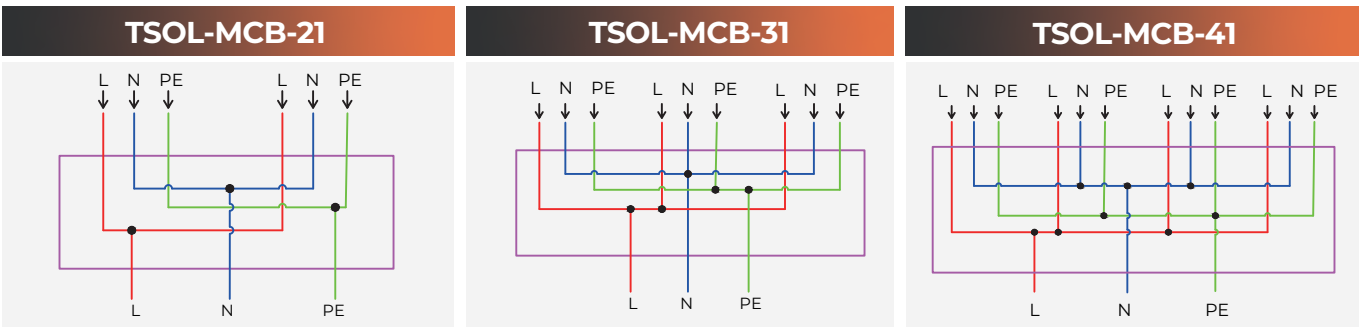
AC Combiner Box



AC Combiner Box is used for TITAN microinverter. Installers can connect several TITAN microinverters to this combiner box on the rooftop.

Then connect this combiner to the AC distribution box.

AC Combiner Box Model	TSOL-MCB-21	TSOL-MCB-31	TSOL-MCB-41
Number of Input Strings	2	3	4
Input Wiring Capacity	≤4 mm²		
Mode of Connection	M20 x 1.5 black		
Shell Material	PC		
Dimension (WxHxD mm)	200 x 150 x 100		
Degree of Protection	IP65		
Number of Output Strings	1		
Output Wiring Capacity	≤16mm²		
Mode of Connection	M32 x 1.5 black		
Maximum Current of Connection Terminal	80A		

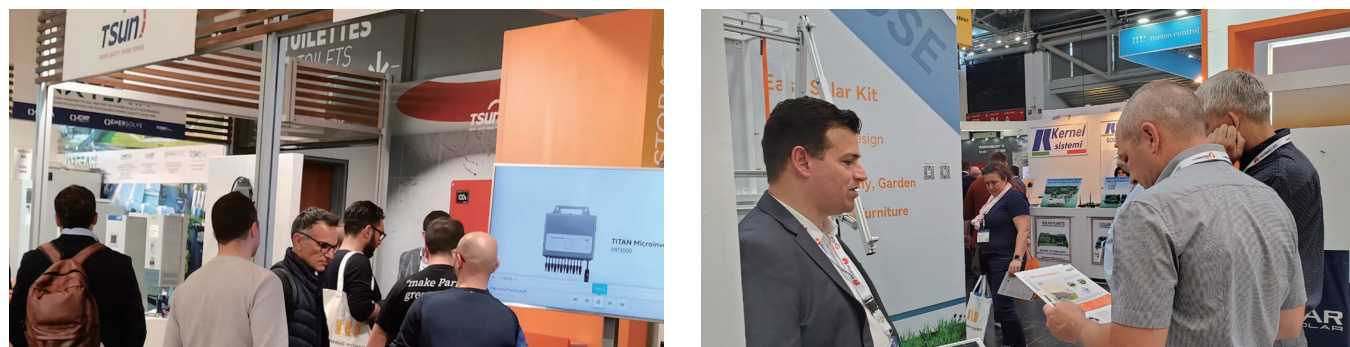


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Sincerely welcome cooperation



The Excitement Continues in 2025

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