

MORE SAFETY MORE POWER

updated on 22th Apr, 2024

TSUN C&I Solution

TITAN Microinverter
DTU (Data Transfer Unit)



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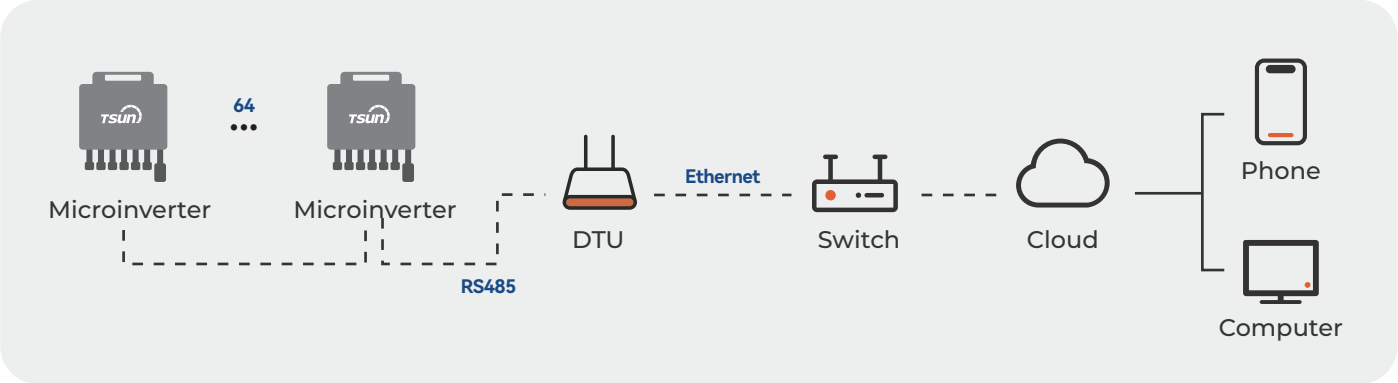
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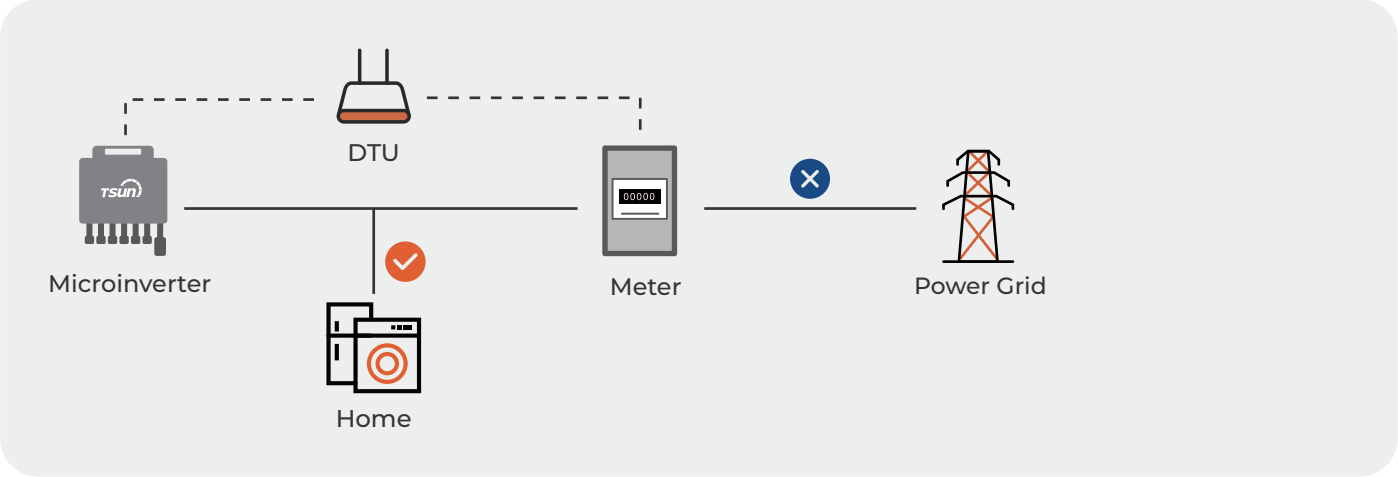
TSUN C&I SOLUTION

//// Data Collection



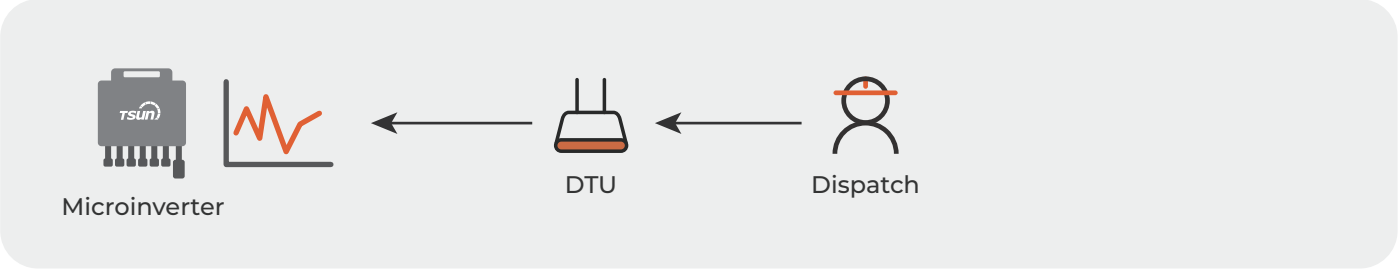
DTU can be used with RS485 micro inverters to monitor the operating status of the micro inverters.

//// Zero export



DTU can also connect to electricity meter devices, collect power grid information, and control the output power of the photovoltaic system to achieve zero-export function.

//// Remote dispatch



DTU also has an external communication interface, which can receive external dispatch commands and regulate output power of the system.

Technical Data

Model	TSOL-MP2250	TSOL-MP3000	TSOL-MS3000
Input(DC)			
Quantity of Input	4 inputs, 4 Panels	6 inputs, 5~6 Panels	4 inputs, 7~8 Panels
Recommended Module Power [W]	480~700+	480~700+	380~600+
Start up Voltage per Input@Rated condition [V]	22	22	24
Mppt Voltage Range per Input [V]	18~60	18~60	22~120
Max. Input Voltage per Input [V]	60	60	120
Max. Short-circuit Current per Input(A)	20	20	16
Max. Input Current per Input [A]	18.5	18.5	15
Quantity of MPPT	4	6	4

Output [AC]			
Max. Continuous Output Power [VA]	2250	3000	3000
Nominal Continuous Output Power [W]	2250	3000	3000
Nominal Output Current [A]	10.2	13.6	13.6
Max Output Current [A]	11	14	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	97.0%	97.1%	97.2%
CEC Weighted Efficiency	96.5%	96.6%	96.7%
Nominal MPPT Efficiency	99.9%	99.9%	99.9%

Mechanical Data			
Dimensions (WxHxD) [mm]		354 * 294 * 60	
Weight [kg]	6.4	7.2	6.8
Pallet		44	

General Data		Protection	
Display	LED indicators;TSUN APP+WEB	Anti-Islanding protection	Integrated
Communication	RS485	Insulation monitoring	Integrated
Type of Isolation	Transformerless	AC surge protection	TYPE II
Type of Enclosure	IP67	Residual current monitoring	Integrated
Cooling	Natural convection	AC overcurrent protection	Integrated
Operating Ambient Temperature Range	-25 ~ +65 °C (derating of over 50°C Ambient Temperature)	AC short-circuit protection	Integrated
Night Time Power Consumption	<1W	AC over/under voltage protection	Integrated
Standards	EN/IEC 62109-1, EN/IEC 62109-2, VDE-AR-N-4105, EN 50549-1, ABNT	AC over/under frequency protection	Integrated
		Over-heat protection	Integrated

ModelTSOL-MG3-MP			
Communication to Microinverter(RS485)		Communication to App	
Communication port	RS485	Signal	Bluetooth 5.0
Maximum Distance	500m	BLE Frequency	2.4GHz
Baud Rate	9600 bps	Maximum Distance to mobile phone(Open Space)	50m
Connection Limit	64 Microinverters	Power Supply	
Communication to Meter(RS485)		Type	External adapter
Communication port	RS485	Input Voltage/Frequency	100 to 240V AC / 50 or 60Hz
Maximum Distance	100m	Power Consumption	2.5W(typical), 5W(maximum)
Grid Type	Single phase / Three phase	Mechanical Data	
Baud Rate	9600 bps (4800 to 19200 optional)	Ambient Temperature(°C)	-20~+55
Communication to Server(WiFi or Ethernet)		Mounting System	Wall mounted
Communication port	WiFi / Ethernet	Indicator Light	6*LED
WiFi Signal	WIFI (802.11 b/g/n)	Communication Port	2*RS485, 2*RJ45(DRM,Enthernet)
WiFi Frequency	2.4GHz		
Maximum Distance(WiFi) (Open Space)	100m		
Ethernet Port	RJ45(802.3)		
Ethernet Speed	10/100M Base-T		
Maximum Distance(Ethernet)	500m		
Sample Rate	Per 5 minutes		