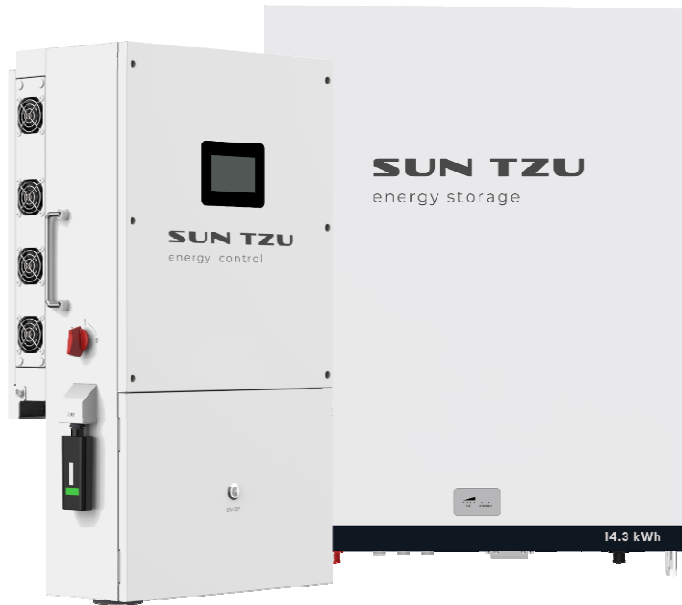


Power entirety

PMS14301 is designed to accelerate the transition to sustainable energy. Customers can receive whole home backup, cost savings, and energy independence by producing and consuming their own energy while participating in grid services. Once installed, customers can manage their system using the App to customize system behavior to meet their energy goals.

PMS14301 Expansions make it easier and more affordable to scale up customers' systems to meet their current or future needs. PMS14301 is designed for fast and efficient installations, and simple connection to any electrical service.



Technical Specifications

System Technical Specifications	Model Number	PMS14301
	Nominal Grid Voltage (Input & Output)	120/240Vac (split phase), 240Vac (single phase)
	Grid Type	Split Phase
	Frequency	50Hz/60Hz
	Overcurrent Protection Device	Configurable up to 45.8A
	Solar to Battery to Home/Grid Efficiency	96.1%
	Solar to Home/Grid Efficiency	97.2%
	Supported Islanding Devices	Load1 port: important load. Load2 port: Set the Aux load SOC option in advanced mode. When the battery SOC falls below the set value, the load relay on the interface will turn off. When the battery SOC is higher than the set value, load 2 is turned on again.
	Connectivity	Wi-Fi (2.4GHz), Ethernet
	Hardware Interface	CAN1/CAN2, RS485, BMS-485/BMS CAN, CT L1/CTL2, Type C, DRY Contacts
	AC Metering	Revenue Grade (+/- 0.5%)
	Protections	Grounding detection, Arc Fault Protection, Island Protection, Battery Reverse Polarity etc.
	Customer Interface	APP
	Warranty	10 Years

Solar Technical Specifications	Maximum Solar STC Input	15kW
	Withstand Voltage	500Vdc
	PV DC Input Voltage Range	120 - 500Vdc
	PV DC MPPT Voltage Range	120 - 500Vdc
	MPPTs	4
	Maximum Current per MPPT (Imp)	14A
Battery Technical Specifications	Maximum Short Circuit Current per MPPT	22A
	Nominal Battery Energy	14.33KWH
	Maximum Continuous Discharge Power	7.68Kw (150A*51.2V)
	Maximum Continuous Charge Power	7.68Kw (150A*51.2V)
	Output Power Factor Rating (EPS)	0-1
	Maximum Continuous Current /power	150A
Environmental Specifications	Maximum Output Fault Current	200A (200A*51.2V=10.24KW)
	Load Start Capability (1 s)	210A (210A*51.2V=10.75KW)
	Power Scalability	Maximum parallel connection of 16 units
	Operating Temperature	Charge: 0~45°C Discharge: -20~55°C
	Operating Humidity (RH)	60±25%R.H. Less than 12 months: -10~35°C less than 3 months: -10~45°C Less than 7 day: -20~65°C
	Storage Temperature	
	Maximum Elevation	2000 m
	Environment	Indoor and Outdoor rated
	Enclosure Rating	Type 3R
	Ingress Rating	IP65
Compliance Information	Pollution Rating	
	Operating Noise @ 1 m	< 38dB
	Certifications	UL 1741, FCC Part 15, UL 1973, UL 9450A, UN38.3, MSDS IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I, II, III, CEC
	Grid Connection	
	Emissions	FCC Part 15 Class B
	Environmental	CA65
Mechanical Specifications	Seismic	AC156, IEEE 693-2005
	Fire Testing	Meets the unit level performance criteria of UL 9540A
	Dimensions (each single unit)	900*675*200mm (Battery); 497mm x 820mm x 255mm (Inverter)
	Weight (each single unit)	Approx: 128.5kg (Battery); 48kg (50kg with breaker) (Inverter)
	Mounting Options	Wall Mount (Battery); Wall Mount (Inverter)

System Configurations

