

Power entirety

PMS51203 is a fully integrated solar and battery system, 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. PMS51203 Expansions make it easier and more affordable to scale up customers' systems to meet their current or future needs. PMS51203 is designed for fast and efficient installations, and simple connection to any electrical service.



Technical Specifications

System Technical Specifications	Model Number	PMS51203
	Nominal Grid Voltage (Input & Output)	120V/240V
	Grid Type	Split phase
	Frequency	60Hz
	Overcurrent Protection Device	External breaker + Software
	Supported Islanding Devices	Software+relay, external MID
	Connectivity	Conduit
	Hardware Interface	All in one
	AC Metering	Inside MID
	Protections	complete short-circuit protection, undervoltage protection, overload protection, anti-island protection and other protection functions
Battery Technical Specifications	Customer Interface	LED, APP
	Warranty	10 years
	Nominal Battery Energy	5.12kWh
	Maximum Continuous Discharge Power	3530VA
	Maximum Continuous Charge Power	3530VA
	Output Power Factor Rating	±0.85

Maximum Continuous Current	14.7A@240Vac
Maximum Output Fault Current	222A(Rms)
Load Start Capability (1 s)	4.5kVA(5s)
Power Scalability	4 batteries parallel

Environmental Specifications

Operating Temperature	-20°C~50°C ¹
Operating Humidity (RH)	0~95%
Storage Temperature	-10~40°C
Maximum Elevation	≤3000m
Environment	Indoor and outdoor
Enclosure Rating	NEMA 3R
Ingress Rating	IP67(battery pack and inverter), IP56(wiring)
Operating Noise @ 1 m	<30dBA at 40°C

Compliance Information

Certifications	Conforms to ANSI/CAN/UL Std. 9540, 1973; UL Std. 1741, 1741SB; IEEE Std.1547, IEEE1547.1; Hawaiian IEEE Std. HECO SRD-IEEE-1547.1; Certified to CSA Std. C22.2 No.107.1, FCC SDOC Part 15:2021, FCC ID Part 15, UN38.3, CEC, CA65 UL Std. 1741, 1741SB; IEEE Std.1547, IEEE1547.1; Hawaiian IEEE Std. HECO SRD-IEEE-1547.1, CEC
Grid Connection	FCC SDOC Part 15:2021, FCC ID Part 15
Emissions	NEMA 3R, IP67, CA65
Environmental	N/A
Seismic	UL9540A
Fire Testing	

Mechanical Specifications

Dimensions	580mm×1000mm×200mm
Weight	105kg
Mounting Options	Wall-mounted/ floor mounted

Backup Gateway

Performance Specifications	Model Number	MID-DG-200A
	AC Voltage (Nominal)	120V/240V
	Feed-in Type	Split phase
	Grid Frequency	50Hz
	Current Rating	200A
	Maximum Supply Short Circuit Current	10kA
	Overcurrent Protection Device	Circuit breaker
	Overvoltage Category	4
	Internal Primary AC Meter	Accuracy 0.5
	Primary Connectivity	Ethernet, WIFI
	User Interface	APP
	Operating Modes	Self consumption, time of use, backup
	Backup Transition	Automatically seamless backup
	Modularity	Support 4 PBS batteries
	Optional Internal Panelboard	1*80A breaker, 2*50A breaker reserved

Warranty 10 years

Environmental Specifications	Operating Temperature	-20°C~50°C ¹
	Operating Humidity (RH)	0~95%
	Maximum Elevation	≤3000m
	Environment	Indoor and outdoor
	Enclosure Type	NEMA 3R

Compliance Information	Certifications	UL67, UL916, UL896A, C22.2 No.107.1
	Emissions	FCC ID Part 15

Mechanical Specifications	Dimensions	Pending
	Weight	Pending
	Mounting options	Wall mounted

¹The operating temperature is restricted with charging temperature (0°C~50°C)

System Configurations

