

This residential energy storage system is the latest split phase hybrid ESS product. It has the following advantages..

- Support a wide range of grid voltage (90Vac~140Vac, per phase).
- Industry leading power density and modular design for easy installation.
- Support hybrid solar-storage application and ac coupling application with existing PV system.
- NEM 3.0 ready design and support zero export function.
- Supports instantaneous 1.8x times overload and can meet the startup requirements of high-power electrical appliances.
- Support stand-alone installation.
- Support genset charging and hybrid power supply.
- Support up to 6 ESS connect in parallel at AC side, and the power can reach 60kW.



## Technical Specifications

System Technical Specifications	Model Number	<b>PMS15318</b>
	Grid Voltage	90Vac~140Vac
	Grid Type	Split phase
	Frequency	50Hz/60Hz
	Hardware Interface	All in one
	Warranty	10 years
Battery Technical Specifications	Nominal Battery Energy	15.3kWh
	Battery module numbers	3
	Nominal capacity of single module	5.12kWh
	Battery voltage	51.2V
	Designed life of battery	15 years

Battery cycle life	6000 times (0.5C, 80% DOD)
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**Environmental Specifications**

Charging Temperature	0°C~55°C
Discharging Temperature	-20°C~55°C
Relative Humidity (RH)	5~95%
Storage Temperature	-10~60°C
Maximum Elevation	≤2000m
Ingress Rating	IP56
Operating Noise @ 1 m	<45dBA at 40°C

**Compliance Information**

Certifications	CEC, UL 1741, FCC Part 15, UL1973, UL9450A, UN38.3, MSDS, IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III, FCC Part 15 Class B, CA65, AC156, IEEE693-2005, NEMA 3 Rated for indoor and outdoor
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**Mechanical Specifications**

Dimensions (W×H×D)	540mm×240mm×1750mm
Weight	16kg
Heat dissipation method	Force air cooling
Interface	PV, Grid, Backup, Communication

**PV Side**

MPPT numbers	3
Max. PV input circuit voltage	600Vdc
PV input voltage range	100Vdc~550Vdc
MPPT voltage range	150Vdc~540Vdc
Max. PV input current	22A/15A/15A
Max. PV input power	15000W

**Grid Side**

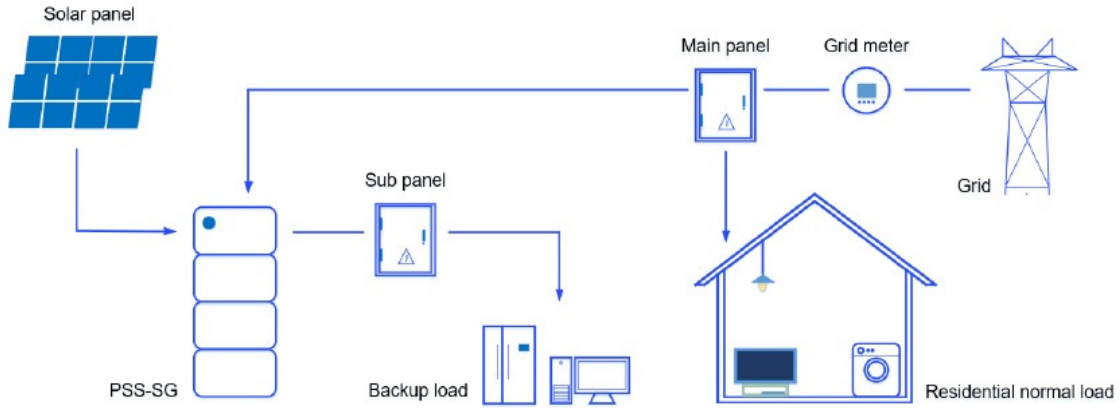
Rated voltage	120V single phase/240V split phase/208V three phase
Input voltage range	90Vac~140Vac per phase
Rated Frequency	50Hz/60Hz
Max. continuous input power	24kW (charging + bypass load)
Max. continuous bypass current	100A

**Backup Side**
**Performance Specifications**

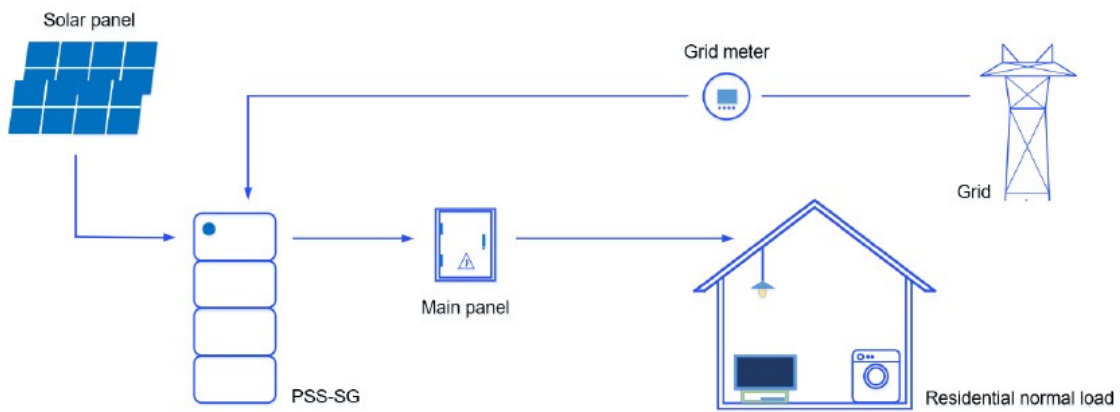
Nominal output voltage	120V single phase/240V split phase/208V three phase
Nominal output frequency	50Hz/60Hz
Max. continuous output power	10000VA
Peak apparent power (5s)	15000VA
Transfer time	10ms (Typical)
Output wave form	Pure sine wave

## System Configurations

### Partial Backup



### Whole home backup



### Stand-alone installation

