

SunPower Reserve

Home energy storage system

All-in-one system with 5kW hybrid inverter and 10kWh battery, expandable up to 60kWh

Access to clean energy, anytime

Creating and consuming your own energy is the quickest way to freedom from the grid's unpredictability and rising prices. And if there's an outage? Your SunPower Reserve system will reliably kick in to make sure your energy needs are covered¹ – keeping you in control of your home's energy.

The power's in your hands

Once you've got your system in place, insights in the SunPower One app will shed light on how your whole home uses power. You will discover your daily consumption habits and learn the most efficient times to use your stored energy. And you will finally understand how much money and carbon you saved – not just see the technical breakdown in kilowatts – so you can take the guesswork out of your next energy bill.²

Saving your pennies and the planet never felt easier.



SunPower Reserve 10 kWh | 5kW Single Phase

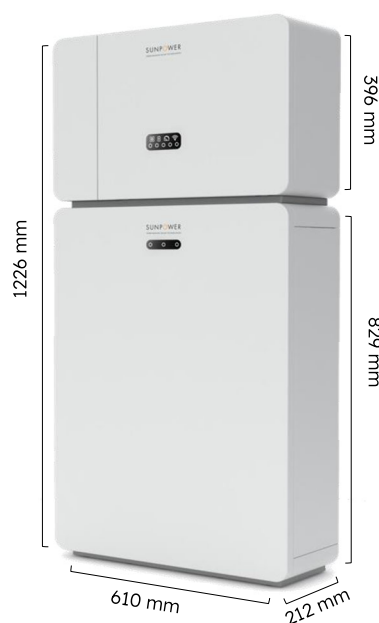
System Technical Specifications	
Battery Capacity	10.1 kWh
Battery Capacity Range	10.1 - 60.5 kWh
Dimensions (WxHxD)	610 x 1226 x 212 mm
Hybrid inverter	Yes
Max. Efficiency ⁵	>96%
Backup function ⁴ / Power per Circuit	YES / 1 x 5 kW
Backup Peak AC Output Power (for 30s)	1 x 7.5 kW
Cooling	Natural convection
Mounting	Floor mount with wall bracing

Inverter Technical Specifications	
Model	RESERVE-INV-1-P5-L1-INT
Output AC (Grid):	
Interconnection	Single Phase
Rated Output Power	5.0 kW
Rated Output Apparent Power	5.0 kVA
Nominal Voltage	230 V AC
Nominal Freq.	50 / 60 Hz
Rated Output Current	21.7 A
Output AC (Backup):	
Rated Output	5.0 kW
Rated Output Apparent Power	5.0 kVA
Input (DC - PV):	
Max PV Rated Input Power	10 kW
MPPT No. / MPPT Voltage Range	2 / 100 - 550 V
Max PV Input Current (I _{MP})	15 / 15 A
Max PV Rated Current (I _{SC})	18.75 / 18.75 A
Min. Start-up voltage	90 V
Operating Voltage Range	90 - 580 V
Input (DC - BAT):	
Max Charging and Discharging Power	5.0 kW
Overtoltage Category	DC II / AC III
Weight	20 kg

Battery Technical Specifications	
Model	RESERVE-BAT-1-DC-10.1-INT
Battery Capacity	10.1 kWh
Usable Capacity	9.6 kWh
Battery chemistry	LFP (LiFePO ₄)
Nominal DC Voltage	96 V DC
Rated Charging and Discharging Current	52.5 A DC
Weight	90 kg

Tested Operating Conditions	
Operating Temperature	Charge: 0 to 50 °C Discharge: -10 to 50 °C
Recommended Temperature	10 to 30 °C
Relative Humidity	0 - 90% (not condensing)
Max. Altitude	2000 m
Noise level @1m	<30dB
Enclosure protection	IP65

Warranties, Services, Certifications and Compliance	
Warranties ⁵	<ul style="list-style-type: none"> 10-year product warranty 10-year battery performance warranty⁶
Monitoring & Services ⁷	SunPower One Platform App for installers and end-users Household insights
Certifications & Compliance	IEC 62109-1, IEC 62109-2, IEC 62040-1:2017, IEC 62619:2017, IEC 63056, IEC 61000, UN 38.3
Grid connection	AS 4777.2, VDE 4105, VDE 0126, CEI 0-21, EN 50549, C10/11
Available listing	TUV, SGS, CEC
EHS Compliance	RoHS Directive 2011/65/EU, Battery directive 2006/66/EC, REACH



Please read the safety and installation instructions at www.sunpower.maxeon.com/int/InstallGuideReserve⁸

1 Backup function is limited to a separated branch circuit at installation with a maximum continuous output power of 5kW.

2 Household insights is accessible via the SunPower One app (available for iOS and Android).

3 Max. Inverter efficiency, tested at U_{PV} = 450V and P_{PV} = 75% P_n, 25°C ambient temperature.

4 Currently managed by the AC backup functionality of the inverter, AC output switching time is <20ms.

5 Product and performance warranty obligations are subject to the Limited Warranty for SunPower Reserve.

6 Battery should be operated within the stated temperature conditions. Battery performance may be limited when operating outside the limits.

7 Monitoring and Services are subject to terms and conditions of use and Maxeon's privacy policy.

8 Paper version can be requested through techsupport.australia@maxeon.com

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