

SunPower Reserve

Home energy storage system

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

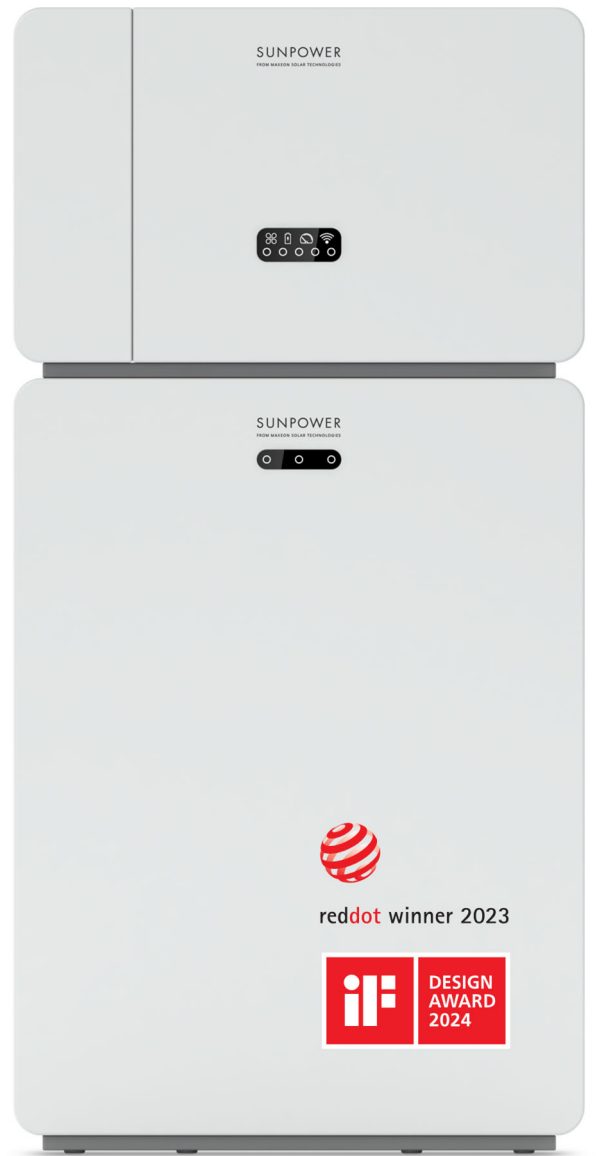
Access to clean energy, anytime

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

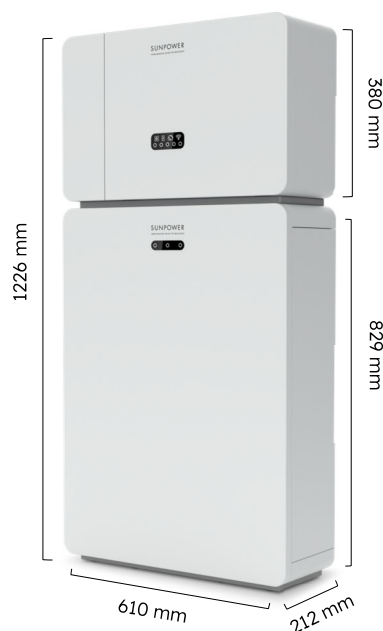
System Technical Specifications	
Inverter AC Output	5 kW / 5 kVA
Max. PV Array @ STC	10 kW
Battery Capacity	10.1 kWh
Battery Capacity Range	10.1 – 60.5 kWh
Hybrid inverter	Yes
Max. Efficiency ³	>96%
Backup function ⁴ / Power	Integrated / 5 kW
Communications	Wi-Fi / Ethernet / DRM / RS485
Cooling	Natural convection
Mounting	Floor mount with wall bracing
Dimensions (W x H x D)	610 x 1226 x 212 mm

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 ¹	5.0 kW
Rated Output Apparent Power	5.0 kVA
Input (DC - PV):	
Max. PV Rated Input Power	10 kW
MPPT No. / MPPT Voltage	2 / 100 - 550 V
Max. PV Input Current (I _{MP})	15 / 15 A
Max. PV Rated Current (I _{SC})	18.75 / 18.75 A
Operating Voltage Range	90 - 580 V
Input (DC - BAT):	
Max. Charging and Discharging Power	5.0 kW
Battery Voltage Range	80 - 450 V
Overvoltage Category	DC II / AC III
Weight	20 kg
AUX Relay	1

Battery Technical Specifications	
Model	RESERVE-BAT-1-DC-10.1-INT
Installed Energy	10.1 kWh
Usable Energy	9.6 kWh
Battery Type	Rechargeable LFP (LiFePO ₄)
Rated Voltage	96 V DC
Max. Charge and Discharge Current	52.5 A DC
Weight	90 kg

System Operating Conditions	
Battery Operating Temperature	Charge: 0 to 50 °C Discharge: -10 to 50 °C
Inverter Operating Temperature	-25 to 60 °C
Recommended Temperature ⁶	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 App with insights for installers and end-users. Monitoring portal for installers.
Compliance	IEC 62109-1, IEC 62109-2, IEC 62040-1:2017, IEC 62619:2017, IEC 63056, IEC 61000, IEC 62116, UN 38.3, CE, UKCA AS/NZS-4777.2, VDE 4105, VDE 0126, CEI 0-21, EN 50549, C10/11, G99, G100
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 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 and Inverter should be operated within the stated temperature conditions. System 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

Made in China. Specifications included in this datasheet are subject to change without notice.

©2024 Maxeon Solar Technologies. All Rights Reserved.

View warranty, patent and trademark information at maxeon.com/legal.