

SunPower Reserve

Home energy storage system

All-in-one system with 10 kW 3-phase hybrid inverter and 12 kWh battery, expandable up to 24 kWh

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.



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FROM MAXEON SOLAR TECHNOLOGIES

Learn more about SunPower Reserve
sunpower.maxeon.com

SunPower Reserve 12 kWh | 10kW Three Phase

System Technical Specifications	
Inverter AC Output	10 kW / 10 kVA
Max. PV Array @ STC	20 kW
Battery System Capacity	12 kWh (3 Packs)
Battery Capacity Range	12 – 24 kWh (3-6 Packs)
Hybrid inverter	Yes
Max. / European efficiency	98.0% / 97.2%
Backup function ³ / Power	Integrated / 10 kW
Communications	Wi-Fi/Ethernet/DRM/RRCR
Cooling	Natural convection
Mounting	Floor/wall mount
Dimensions (WxHxD)	610 x 1900 x 213 mm

Inverter Technical Specifications	
Model	RESERVE-INV-1-P10-L3-INT
Output (AC):	
Interconnection	Three Phase
Rated Output Power	10.0 kW
Nominal Voltage	3L/N/PE, 380/400 V AC
Nominal Freq.	50 / 60 Hz
Rated Output Current @ 230V	14.5 A (per phase)
Input (DC - PV):	
Max PV Rated Input Power	20 kW
Number of MPPT	3
Operating Voltage	120-1000 V
MPPT Voltage Range	140-950 V
Start-up Voltage	120 V
Max PV Input Current (I _{MP})	16 / 16 / 16 A
Max PV Rated Current (I _{SC})	24 / 24 / 24 A
Input (DC - BAT):	
Max Charging and Discharging Power	10.0 kW
Overvoltage Category	DC II / AC III
Weight	29 kg

Battery Pack Specifications	
Model	RESERVE-BAT-1-DC-4-INT
Pack Capacity	4.0 kWh
Usable Capacity	3.8 kWh
Battery chemistry	LFP (LiFePO ₄)
Nominal DC Voltage	96 V DC
Rated Charging and Discharging Current	42 A DC
Weight	44 kg



Please read the safety and installation instructions at www.sunpower.maxon.com/int/InstallGuideReserve3P⁷

- Backup output power on dedicated port is equivalent to inverter output power on grid port.
- Household insights is accessible via the SunPower One app (available for iOS and Android).
- Managed by the AC backup functionality of the inverter, AC output switching time is <20ms.
- Product and performance warranty obligations are subject to the Limited Warranty for SunPower Reserve.
- Battery and Inverter should be operated within the recommended temperature conditions. Battery/Inverter performance may be limited when operating outside the recommended temperatures.
- Monitoring and Services are subject to terms and conditions of use and Maxon's privacy policy.
- Paper version can be requested through techsupport.australia@maxon.com

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

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

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System Operating Conditions ⁵	
Battery Operating Temperature	Charge: 0 to 50 °C Discharge: -10 to 50 °C
Inverter Operating Temperature	-25 to 60 °C
Recommended Temperature	10 to 30 °C
Relative Humidity	0 - 90% (not condensing)
Max. Altitude	3000 m
Noise level @1m	<30dB
Enclosure protection	IP65

Warranties, Services, Certifications and Compliance	
Warranties ⁴	<ul style="list-style-type: none"> 10-year product warranty 10-year battery performance warranty⁵
Monitoring & Services ⁶	SunPower One App with insights for installers and end-users. Monitoring portal for installers.
Certifications & Compliance	IEC 62109-1/2: 2010, IEC 62040-1:2017, IEC 62619:2022, IEC 63056, IEC 61000, UN 38.3
Grid connection	VDE 4105, CEI 0-21, EN 50549, TOR25
Available Markings	TUV, SGS, CE
EHS Compliance	RoHS Directive 2011/65/EU, Battery directive 2006/66/EC, REACH

