

SOLARWATT MyReserve 500

SOLARWATT Energy Systems

THE SOLAR BATTERY FUTURE IS HERE.

SOLARWATT MYRESERVE 500

MyReserve was developed for quick plug & play installation and its low weight means that qualified technicians can easily carry out installation without a second person.

- Dimensions (HxWxD): 98.4 x 73.4 x 31 cm
- Weight: from 53 kg (max. 25 kg per component)
- Storable energy: 2.2 kWh and 4.4 kWh, expandable up to 8.8 kWh as cluster
- Depth of discharge (DoD): 100 %
- Overall degree of efficiency (round-trip) at best point: 96 %
- Assembly: space-saving wall mounted
- Safety: certified according to the new Safety Guidelines for li-ion household batteries and UN38.3 Battery module transport test
- Fast step response <1 s (time to supply a load demand)

Product Quality

- Best Price
- Tested safety
- Modular expandable
- Easy Installation
- Problem-free Retrofitting
- Excellent overall efficiency

SOLARWATT Service



SOLARWATT FullCoverage
included*



Competent Consulting
Experts via Hotline or on location



Warranty
min. 80 % Capacity**



Country of origin
Quality made in Germany



Simple returns policy
as per electrical and electronic equipment legislation



Energy Manager ready
perfect system integration

Tested by the accredited testing laboratory:



Scope of Delivery:

- 1x SOLARWATT MyReserve 500
- 1x or 2x SOLARWATT MR Pack 2.2
- 1x Wallmount
- 1x Jumper plug (only for expansion level 2.2 kWh)



* as far as there is an Inverter used, that is acc. to „SOLARWATT MyReserve - Approved Inverters“ not applicable in Australia

** Performance warranty min. 80% capacity of the battery modules MR Pack 2.2 or MyReserve Pack 22.2

Technical Data | SOLARWATT MyReserve 500

GENERAL SPECIFICATIONS

Number of system housings	1	1
Number of battery modules	1	2
Battery module	SOLARWATT MR Pack 2.2	
Storable energy ¹⁾	2,2 kWh	4,4 kWh
Coupling of the battery system	in the DC string of the PV system	
Grid connection	Suitable for grid parallel operation with 1 or 3-phase PV inverter	
Max. overall efficiency (round trip - charging/discharging)	92 %	
Efficiency with direct internal consumption (without battery operation)	99,8 %	
Max. permissible PV open circuit voltage (for dimensioning) U_{oc} @ -15°C	600 V	
Max. permissible PV input voltage	550 V	
Min. permissible PV input voltage	120 V	150 V
Max. permissible PV input current	12 A	
Number of PV inputs/outputs on MyReserve	1	
Allowed cable cross section terminal strip	0,5 - 10 mm ²	
Max. charge and discharge output in cont. operation	750 W	1,5 kW
Maximum charge and discharge output	1,0 kW	2,0 kW
Power electronics supply voltage	230 V (AC)	
Internal consumption in sleep mode	1 W	
Internal consumption in standby mode	5 W	
Internal consumption in operating mode	5 - 15 W	
Step response (time to supply a load demand)	< 1 s	
Dead time (time to stop discharging)	0,1 s	
Base system total weight / Extension	53 kg	78 kg
Dimensions (W x H x D) [cm]	73,4 x 98,4 x 31	
Installation	Wall mount	
Shut-off device	Two redundant automatically switching HV relays, DC disconnecter	
Communication	LED status display, optional SOLARWATT EnergyPortal	
Full coverage insurance ²⁾	5 years	
Warranty battery system ³⁾	5 years	
Warranty battery module ³⁾	10 years min. 80 % capacity	

SUPPORTED DEVICES

PV inverter	all standard string inverters in accordance with the technical design parameters of SOLARWATT MyReserve
Battery	SOLARWATT MR Pack 2.2, MyReserve Pack 22.2
Current sensor	SOLARWATT AC-Sensor 50, AC-Sensor 63
Energy management systems	SOLARWATT EnergyManager
DC current source	Crystalline/amorphous Si - photovoltaic modules

1) at BOL (Beginning of Life at room temperature); 2,2 kWh not applicable in Australia

2) SOLARWATT Full Coverage Insurance included for the first 5 years, optional extension available; not applicable in Australia

3) The corresponding warranty conditions apply.

4) MyReserve does not operate at temperatures below -15°C or above +45°C. Unrestricted performance is provided for the household in the temperature range of 0°C to 30°C. Accelerated aging of the cells should be taken into account at temperatures above +45°C.

ENVIRONMENTAL AND AMBIENT CONDITIONS

Environmental temperature range (operation)	optimum: 0°C to 30°C (max. 45°C) ⁴⁾
Relative air humidity	≤ 85% non condensing
Protection rating	IP 31
Protection class	I
Installation location	Up to 2000m above sea level

CERTIFICATIONS AND STANDARDS

Tested by accredited laboratories according to	Safety Guidelines for Li-ion household battery system Version 1.0 E DIN EN 62619:2014 (VDE 0510-39) UN38.3 DIN EN 50272-1:2011 (VDE 0510-1) E DIN EN 61427-2:2014 (VDE 0510-41) DIN EN 62109-1:2011 (VDE 0126-14-1) DIN EN 61010-1:2011 (VDE 0411-1) DIN EN 61000-6-1:2007 (VDE 0839-6-1) DIN EN 61000-6-3:2011 (VDE 0839-6-3)
Conformity with	EU-Directives (CE): 2014/35/EU (low-voltage), 2014/30/EU (EMC), 2011/65/EU (RoHS, only AC-Sensor 50, AC-Sensor 63) KIT short checklist for Li-ion household battery systems (150 points) VDE AR 2510-2 (in connection with VDE-AR-N 4105-conform PV-Inverters) CEI 0-21 (in connection with CEI 0-21 conform PV-Inverters)

DIMENSIONS AND STRUCTURE (FRONT VIEW, REAR VIEW INCL. WALL MOUNT)

