

SOLARWATT MyReserve 500

SOLARWATT Energy Systems

THE SOLAR BATTERY FUTURE IS HERE.

SOLARWATT MYRESERVE 500

MyReserve was developed for quick plug&play installation, and the low weight means that qualified technicians can affordably 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) in best point: 96 %
- Assembly: space-saving wall mounting
- Safety: certified according to the new Safety Guidelines for li-ion household batteries and UN38.3 Battery module transport test
- Fast settling time <1 s

Product Quality

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

SOLARWATT Service



SOLARWATT FullCoverage
inkluded*



Competent Consulting
Experts via Hotline or on location



Warranty
min. 80 % Capacity**



Country of origin
Quality made in Germany



Take-back service
acc. to ElektroG / BattG



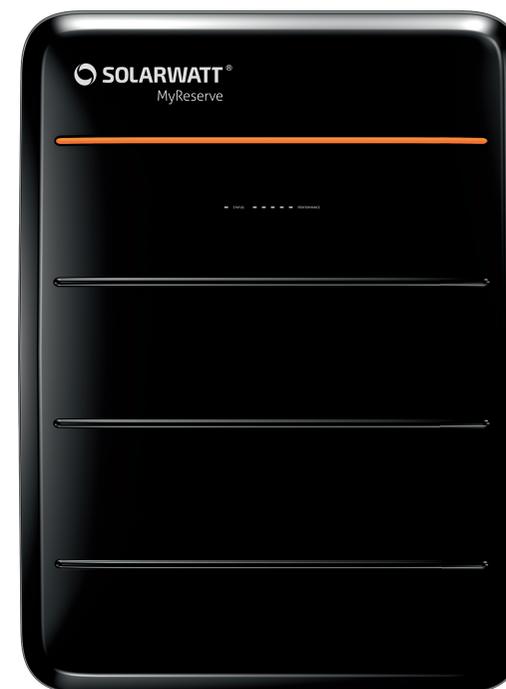
Energy Manager ready
perfect system integration

Tested by an accredited testing laboratory:



Scope of Delifery:

- 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 - Aproofed Inverters“
** Performance warranty min. 80% capacity of the battery modules MR Pack 2.2

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	
Settling time	< 1 s	
Dead time	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 disconnect	
Communication	LED status display, optional SOLARWATT Energy Portal	
Full coverage insurance ²⁾	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
Current sensor	SOLARWATT AC-Sensor 50, AC-Sensor 63
Energy management systems	SOLARWATT Energy Manager
DC current source	Crystalline/amorphous Si - photovoltaic modules

1) at BOL (Beginning of Life at room temperature)

2) SOLARWATT FullCoverage Insurance included for the first 5 years, optional extension available

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)

