

## PRODUCT



# SOLARWATT Battery flex top pack flex middle pack

## Safe, powerful, compact

The SOLARWATT Battery flex pack is a high-performance lithium-ion battery for installation as a middle or end module in a SOLARWATT Battery flex storage system.

- 2.4 kWh usable energy content per battery module
- long service life > 15 years
- plug & play installation with contact-protected and polarity-reversal-protected connecting plugs
- easy installation with cable-free, plug-in connection for modules
- single person installation possible (25 kg per module)
- simple commissioning with the SOLARWATT Pro app
- multi-level security concept
- certified as per »Safety guidelines for Li-ion household battery systems«
- maintenance free
- no memory effect

in cooperation with



## BENEFITS

- certified safety
- simple installation
- easy to retrofit



## SERVICE

**Full Coverage Insurance**  
included

**Warranty<sup>1)</sup>**

10-year performance warranty for at least 80% of the usable energy content (after successful warranty activation)

**Simple return policy**

as per electrical and electronic equipment legislation

**Competent consulting**

experts via hotline or on site

**Country of origin**

quality Made in Germany

1) Individual product components are excluded from the warranty.  
The warranty conditions for SOLARWATT Battery flex AC-1 apply.

## GENERAL INFORMATION

|   |                          |
|---|--------------------------|
| Total energy                                  | 2.7 kWh                  |
| Usable energy                                 | 2.4 kWh                  |
| Rated capacity                                | 93 Ah                    |
| Rated voltage                                 | 29.2 V                   |
| Current carrying capacity                     | 30 A                     |
| Cell technology                               | Li-ion (NMC)             |
| Cell separator                                | Ceramic coating          |
| Battery management system (BMS) <sup>1)</sup> | UIT supervisor           |
| Maximum efficiency                            | 97,5 %                   |
| Weight  | 25 kg                    |
| Dimensions (W x H x D)                        | 540 mm x 144 mm x 303 mm |

## ENVIRONMENTAL AND AMBIENT CONDITIONS

|   |  |
|---|--|
| Operating temperature <sup>2)</sup>       | -20 °C to 55 °C                                    |
| Ambient temperature for optimum operation | +10 °C to +30 °C (min. 0 °C)                       |
| Storage temperature                       | -20 °C to 30 °C                                    |
| Transportation temperature                | -20 °C to 55 °C                                    |
| Relative air humidity                     | ≤ 100%   |
| Protection rating                         | IP54   |
| Installation location                     | Up to 2,000 m above sea level                      |
| Installation                              | Wall installation<br>(optional floor installation) |
| Battery marking as per IEC 62620          | INP43/174/92/(8S)M/+5+60/95                        |

## CERTIFICATIONS AND STANDARDS

UN38.3

As a component of the SOLARWATT Battery flex:  
Safety Guidelines for Li-ion household battery system, Version 1.0  
DIN EN 62619:2014 (VDE 0510-39)  
EN 50272-1:2011 (VDE 0510-1)  
EN 61010-1:2011 (VDE 0411-1)  
EN 61000-6-1:2007 (VDE 0839-6-1)  
EN 61000-6-3:2011 (VDE 0839-6-3)

## GENERAL INFORMATION

|                                  |  |
|----------------------------------|--|
| Housing                          | Aluminum   |
| Power connections <sup>2)</sup>  | <b>Battery top pack:</b><br>Power plug with integrated communication (touch-safe and reverse polarity protected)<br><b>Battery flex middle pack:</b><br>Power connector & plug with integrated communication (touch-safe and reverse polarity protected) |
| Communication                    | iso SPI / CAN  |
| Battery fuse                     | Integrated   |
| Warranty <sup>3)</sup>           | min. 80 % of the usable energy content over 10 years (after successful warranty activation)  |
| Cycle service life <sup>4)</sup> | unlimited in the warranty period   |

## SUPPORTED DEVICES

|                |   |
|----------------|---|
| Storage system | SOLARWATT Battery flex base AC-1,<br>SOLARWATT AC Sensor Flex |
|----------------|---|

- 1) continuous monitoring of cell voltages, cell temperatures, and current. Shut-off of the system when parameter limits are exceeded
- 2) the battery poles are voltage-free when the battery is removed
- 3) Individual product components are excluded from the warranty. The warranty conditions for SOLARWATT Battery flex AC-1 apply.
- 4) valid for the "internal consumption optimization" operating mode
- 5) for detailed operating behavior depending on temperature see SOLARWATT Battery flex AC-1 installation and operating instructions

In compliance with: 2014/35/EU (LVD)  
EU Directives (CE): 2011/65/EU (RoHS)  
2014/30/ EU (EMC)

Cells tested to following and other standards:  
UN38.3  
Automotive standards (EUCAR Abuse Level 3)