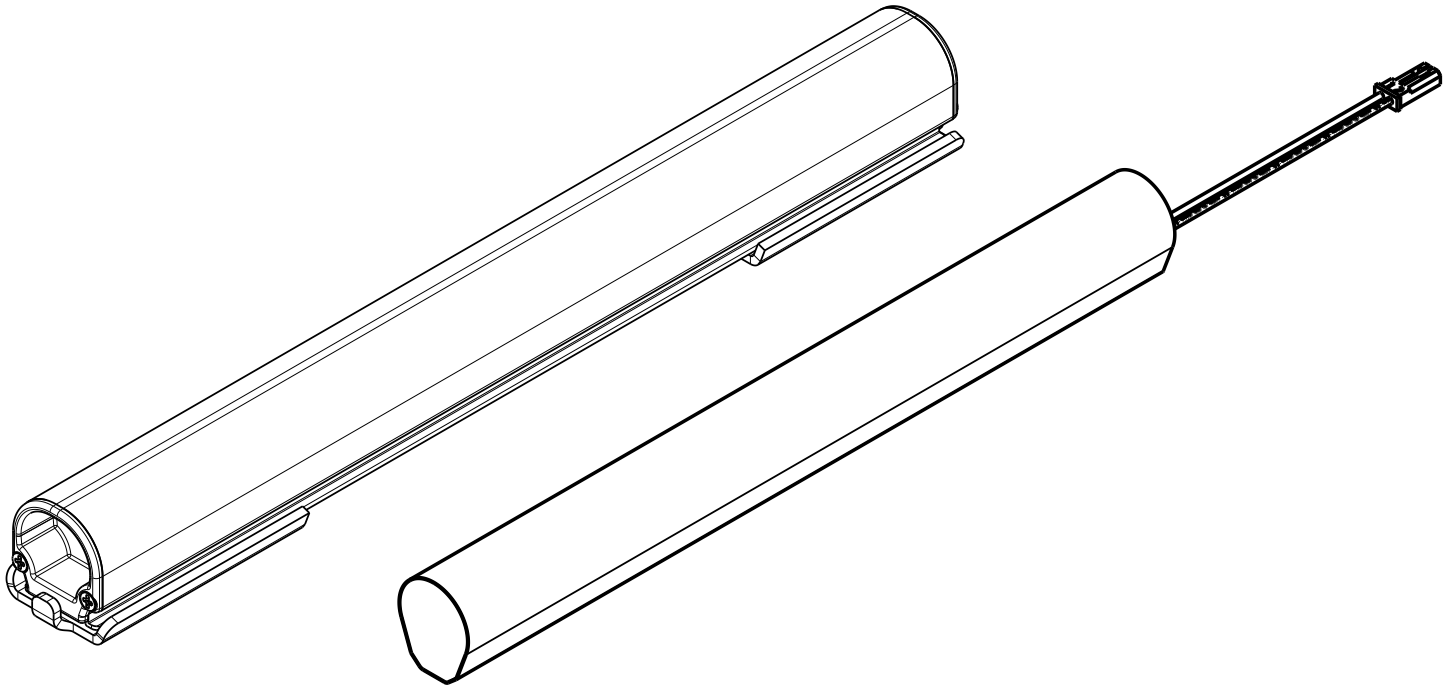


# Ease Homematic IP Rechargeable Battery pack



## Features & benefits

### **Ease HmIP battery pack**

Ease HmIP smart blinds are battery powered smart blinds. Most blinds are designed to have integrated battery packs. The battery pack gives you the option to charge in-place or at a position of your choice.

The Li-ion battery chemistry gives a prolonged operating life. (For larger and heavier blinds;  $\pm 300$  up and down cycles / 9-12months of operation)

### **Mounting options**

The battery Pack is integrated or externally mounted (warm applications and VB),

Externally it can either be mounted onto the headrail, using clips or adhesive fixing strip. Or onto the wall using our wall mounting brackets.

### **Intelligent battery status warning and charging.**

Shade movement at slow speed to signal low battery status.

Push notification signaling low battery on your smartphone or connected smart device.

## Technical data

Nominal voltage	11.1 VDC
Nominal Capacity	2200 mAh
Power	24,4 Wh
Max. Charge Voltage (V),method	12,6 V CC/CV
Max. Charge current	3 A
Discharge voltage cut off	8.25 V
Charge time, std. charge (0.2C)	6 hrs.
Rapid charge (1C)	3 hrs
Max. Discharge current	3.0 A
Average Self-Discharge (monthly)	≤4%
S.O.C. (state of charge)	≤30%
Charge Cycles (>75% Capacity)	±300
<b>Permitted temperature ranges</b>	

-Discharge operation -20°C...+75°C

-Charge operation 0°C...+50°C

### Dimensions & weight

Length 199 mm

Diameter 22.9 mm

Nett Li-ion Weight approx. 145 g

### External pack

Length 260 mm

Width 24 mm

Height 25 mm

Weight ±230 g

Protection rate IP 20

### Connections

2 core AWG 24 UL cable with

2 pole socket contact SYP-02TV-

*External pack*

IN: 1x DC plug 1,3 x3,5 mm (Charger)

OUT: 1x DC plug 2,1 x5,5 mm (Motor)

**Integrated BMS Protection**

• Deep Discharge protection ✓

• Short Circuit protection ✓

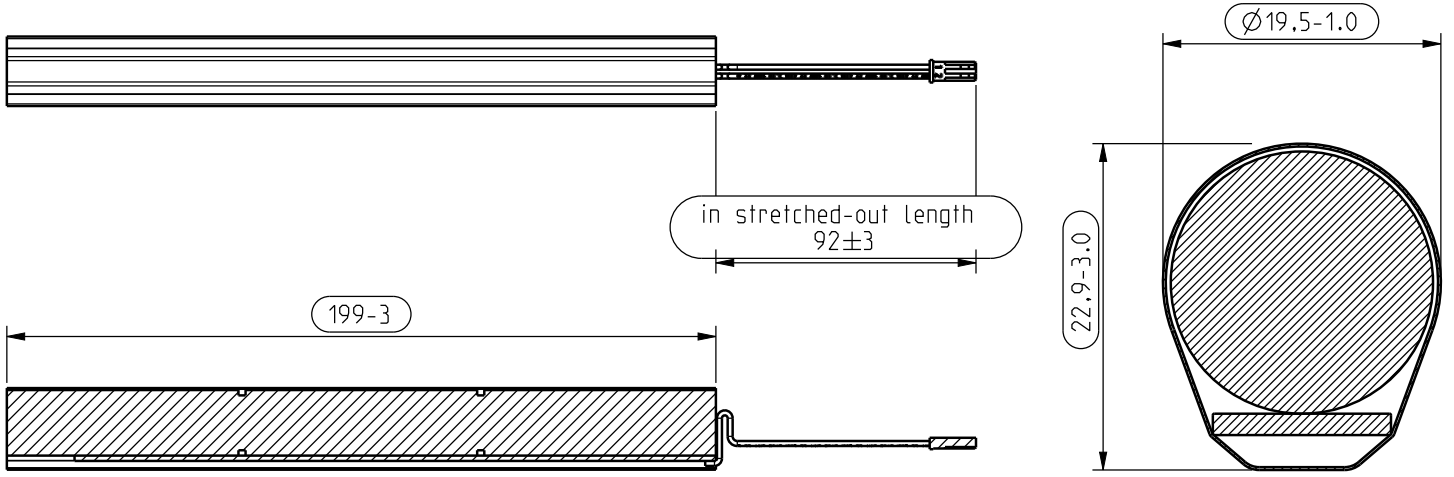
• Over-charge protection ✓

• Over current protection ✓

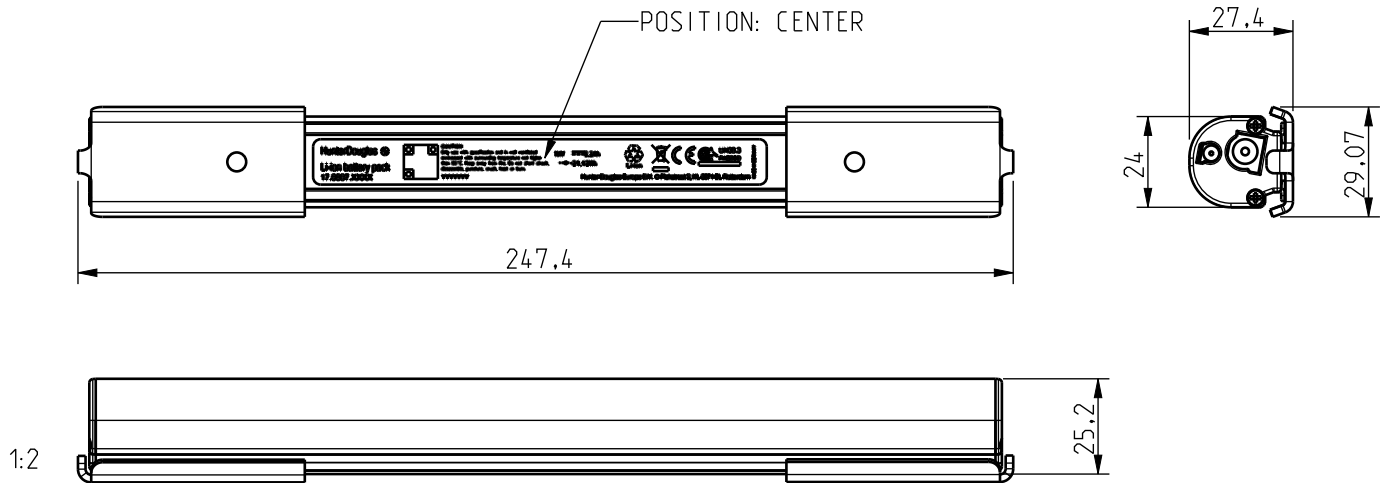
• Temperature control ✓

# Dimensions

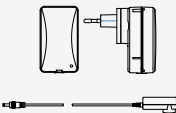

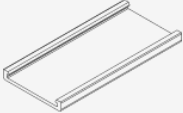
## integrated Battery pack



## External Battery pack



## Accessories

Description	Product code	Packing Unit	Figure
Charger + AC plugs	17.0808.0000	50 pcs	 The figure shows a white wall-mounted charger with a black AC plug and a black USB charging cable with a white USB-A connector.
Mounting clip VB	17.1524.0000	100 pcs	 The figure shows a white plastic mounting clip with a hook-like top and a vertical stem with a small notch at the bottom.
Adhesive fixing strip	17.1800.0204	50 pcs	 The figure shows a white, rectangular adhesive strip with a slightly raised edge on one side.

## Logistics / Applications

Article number	17.806.0000 (internally in headrail)
Min. order qty	48 pcs
Article number	17.807.0000 externally (VB and special models)
Min. order qty	24 pcs
Application	Rechargeable power source for Ease HmIP products

## Transportation Guidelines

When transporting Lithium ion Batteries, one should consider the following regulations. Lithium batteries (or cells) are considered as Dangerous Goods due to the fact that they can overheat and ignite under certain conditions. Applicable regulation for relevant transport modes considered by Hunter Douglas are:

Transport mode	regulation
<b>AIR</b>	The 58 <sup>th</sup> /2017 edition of the IATA DGR: Section II of the relevant Packing Instructions
<b>ROAD</b>	<ul style="list-style-type: none"><li>• The 2017 edition of the ADR in ADR affiliated countries (i.e. Europe): Special Provision 188.</li><li>• Any relevant local legislation in non ADR countries (i.e. Rest of the World)</li></ul>



## SEA

- The 2018 edition of the IMDG Code: Special Provision 188

Always check te latest and local applicable transport regulations for your region and transport method

## AIR

### Certification and Packaging

The ease Lithium ion battery pack meets the requirements of **UN Manual of Tests and Criteria, Part III, subsection 38.3.** or any subsequent revision and amendment applicable at the date of the type testing.

The battery pack is categorized in the following UN number groups concerning packing instructions:

UN Number	Proper Shipping Name	Packing Instruction
UN3480	Lithium ion batteries	965 (section IB)
UN3481	Lithium ion batteries packed with equipment	966 (section II)
	Lithium ion batteries contained in equipment	967 (section II)

### UN 3480 Lithium ion Batteries 965 section IB General Requirements

Out of the box our ease Battery pack complies to the below requirements; when shipping the batteries in *bulk* to customers or 3rd parties the below should be taken into account:

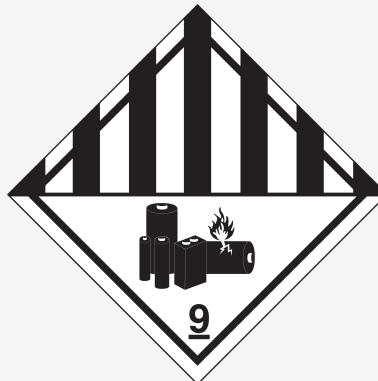
- For lithium ion batteries, the Watt-hour rating is not more than 100 Wh;
  - The Watt-hour rating must be marked on the outside of the battery case except for those batteries manufactured before 1 January 2009;
- Lithium ion cells and batteries must be offered for Air transport at a state of charge not exceeding 30 per cent of their rated capacity. Batteries at a state of charge greater than 30 per cent of their rated capacity may only be shipped with the approval of the State of Origin and the State of the Operator under the written conditions established by those authorities.
- Nett weight of package: 10 kg **Cargo Aircraft Only**

## Additional Requirements

- Batteries must be packed in inner packaging that completely enclose the cell or battery then placed in a strong rigid outer packaging.
- Batteries must be protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to a short circuit.
- Each package must be capable of withstanding a 1.2 m drop test in any orientation without:
  - damage to cells or batteries contained therein;
  - shifting of the contents so as to allow battery to battery (or cell to cell) contact;
  - release of contents.
- Each package must be marked with the appropriate lithium battery mark (1) in addition to the appropriate Class 9 hazard label (2) and the cargo aircraft only label (3).



Lithium Battery mark



Class 9 label



C.A.O.

\* UN number

\*\* additional information

## UN 3481 Lithium ion Batteries 966 section II General Requirements

The below applies when **shipping Li-ion batteries packed with a blind to customers or 3rd parties**. Out of the box our ease Battery pack complies to the below requirements

- For lithium ion batteries, the Watt-hour rating is not more than 100 Wh;
  - The Watt-hour rating must be marked on the outside of the battery case except for those batteries manufactured before 1 January 2009;
- Nett weight of Batteries contained in package: 5 kg

## Additional Requirements

- Batteries must be packed in inner packaging that completely enclose the cell or battery then placed in or either with the equipment in a strong rigid outer packaging.
- Batteries must be protected so as to prevent short circuits. This includes protection against contact with conductive materials within the same packaging that could lead to a short circuit.
- Each package must be capable of withstanding a 1.2 m drop test in any orientation without:
  - damage to cells or batteries contained therein;
  - shifting of the contents so as to allow battery to battery (or cell to cell) contact;
  - release of contents.
- Each package must be marked with the appropriate lithium battery mark (1) without the mark being folded.



Lithium Battery mark; \* UN number and \*\* additional information

- The words “lithium ion batteries, in compliance with Section II of PI966” must be placed on the air waybill, when an air waybill is used.
- Any person preparing or offering cells or batteries for transport must receive adequate instruction on these requirements commensurate with their responsibilities.

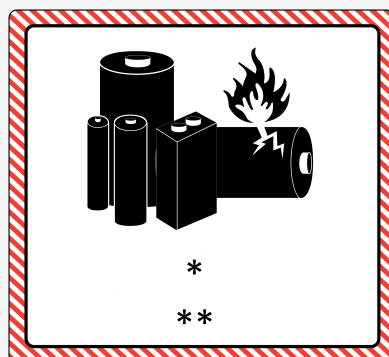
## UN 3481 Lithium ion Batteries 967 section II General Requirements

The below applies when **shipping Li-ion batteries contained in a blind to customers or 3rd parties**. Out of the box our ease Battery pack complies to the below requirements

- For lithium ion batteries, the Watt-hour rating is not more than 100 Wh;
  - The Watt-hour rating must be marked on the outside of the battery case except for those batteries manufactured before 1 January 2009;
- Nett weight of Batteries contained in package: 5 kg

## Additional Requirements

- The equipment must be secured against movement within the outer packaging and must be equipped with an effective means of preventing accidental activation.
- Batteries must be protected so as to prevent short circuits.
- The equipment must be packed in strong rigid outer packaging constructed of suitable material of adequate strength and design in relation to the packaging's capacity and its intended use unless the battery is afforded equivalent protection by the equipment in which it is contained.
- Each package must be marked with the appropriate lithium battery mark (Figure *Lithium battery mark* ). The package must be of such size that there is adequate space to affix the mark on one side without the mark being folded.
  - This requirement does not apply to:
    - packages containing only button cell batteries installed in equipment (including circuit boards); and
    - packages containing no more than two batteries, where there are not more than two packages in the consignment.



Lithium Battery mark; \* UN number and \*\* additional information

- Where a consignment includes packages bearing the lithium battery mark, the words "lithium ion batteries, in compliance with Section II of PI967" must be placed on the air waybill, when an air waybill is used.
- Any person preparing or offering cells or batteries for transport must receive adequate instruction on these requirements commensurate with their responsibilities.
- The words "lithium ion batteries, in compliance with Section II of PI967" must be placed on the air waybill, when an air waybill is used.
- Any person preparing or offering cells or batteries for transport must receive adequate instruction on these requirements commensurate with their responsibilities.

For all above categories the following warning applies.

## **⚠ Shipping not allowed when:**

- Batteries are defective, or damaged and when they have the potential of producing a dangerous evolution of heat, fire or short circuit
- Batteries which are in the Waste categories or shipped for recycling unless approved by the appropriate national authority of the State of Origin and the State of the Operator.

## **ROAD & SEA**

Hunter Douglas original packaging method of ease Lithium Ion Battery complies to ADR and IMDG regulations as do the Batteries themselves. they can be shipped at a maximum weight of 30kgs per package.

Packaging should always contain the Lithium ion battery mark with applicable UN number. (See above)

## Warning and user notes

- Protect Battery from shocks during transport, storage and assembly.
- Do not use the battery in case of visible damage tot the battery or battery case
- Indoor installation only. do not allow battery to get wet or exposed to high humidity or extreme temperatures.
- Avoid installation in direct sunlight.
- A low battery charge status is signaled in different ways:
  - Connected motorized shade moves with slow speed or won't operate at all
  - Push notification by HmIP App about low battery status of the respective device