



A Phoenix Mecano Brand



## **POWER PACK 1300**

### **Installation Instruction**

**(Original installation instruction, translation)**

# Foreword

## Disclaimer and exclusion of liability

DewertOkin is not responsible for damage resulting from:

- failure to observe these instructions,,
  - changes made to this product which have not been approved by DewertOkin, or
  - the use of replacement parts which have not been approved or manufactured by DewertOkin.
- We reserve the right to make unannounced technical changes in the course of our continual product improvement process!

## Creation of a complete operating instruction manual for the entire end product

These instructions are only intended to be used by the end-product manufacturer. They should not be given to the operator of the end product. The factual information contained within may be used as a basis when creating the end-product manual.

The warning and danger notices are best suited for use in the end product's manual. However it is not sufficient to simply follow these notices. You should also carry out an internal risk assessment for your end product. This can then be used as the basis for the safety notices in your manual.

These installation instructions do not contain all information required to safely operate the end product. They only describe the installation and operation of the drive as partially completed machinery.

The instructions are intended for the technicians responsible for manufacturing an end product and not for the operators of the end product.

# Table of Contents

<b>Foreword</b>		<b>2</b>
Disclaimer and exclusion of liability		2
Creation of a complete operating instruction manual for the entire end product		2
<b>Table of Contents</b>		<b>3</b>
<b>1. General</b>		<b>5</b>
1.1 Conventions used		5
1.2 Warranty		5
1.3 Selection and qualification of personnel		5
<b>2. Safety notices</b>		<b>6</b>
2.1 Type label		7
<b>3. Description</b>		<b>8</b>
3.1 Dimensions POWER PACK 1300 and mounting bracket		10
3.2 Connection options		10
<b>4. Notes for packaging and transport</b>		<b>11</b>
<b>5. Storage</b>		<b>12</b>
5.1 Charging periods during storage		12
5.2 Handhabung	Fehler! Textmarke nicht definiert.	
5.3 Technical Data for storing the batteries		13
<b>6. Charging the battery</b>		<b>14</b>
<b>7. Commissioning</b>		<b>14</b>
7.1 Notes for operation		15
<b>8. Cleaning and care</b>		<b>15</b>
<b>9. Disposal</b>		<b>15</b>
<b>10. Troubleshooting</b>		<b>16</b>
EU Declaration of Conformity		17



# 1. General

The manufacturer of the end product must create an operating manual for that end product. The contents and especially the safety notices found in this document can be used in the operating instructions for the end product.



Read attentively and follow this information carefully before handling the rechargeable batteries. Keep this document in a safe place.



Be sure to follow the notices and information found on the battery and packaging.

## 1.1 Conventions used

Notices which do not relate to safety are indicated in these instructions with a triangle:

- ▶ Triangular notice symbol

### Safety notice explanations



#### **CAUTION**

CAUTION against dangerous situation, risk of injury

#### **NOTICE**

NOTICE is used to address practices which are not related to personal injury but may result in damage to the product or surroundings.

## 1.2 Warranty

Rechargeable batteries, by their nature, have a limited lifespan and are characterized by gradual power loss over time. The normal depreciation and continual power loss exhibited by the battery are not covered by any warranty claims.

## 1.3 Selection and qualification of personnel

The installation of the POWER PACK 1300 in the end product may only be performed by qualified personnel.

## 2. Safety notices



### CAUTION

#### Leaking batteries present a health hazard!

- Leaking battery fluid can injure your skin or eyes.
- The fluid is harmful when touched or swallowed.
- If you come into contact with battery fluid, clean the affected area with water and contact a doctor.



### CAUTION

- If the battery is damaged, it must be disposed immediately.
- Do not open or destroy the battery.
- Do not solder or weld at the battery or in the vicinity of the battery.
- Avoid contact with water.
- Use only by DewertOkin approved Chargers.

The POWER PACK 1300 should not be used:

- in any environment where combustible or explosive gases or vapours (e.g., anaesthesiology) may be present,
- in the proximity of open fires or other heat sources (such as furnaces, ovens or direct sunlight),
- in any application that will be cleaned with an automated washing system,
- in a moist environment,
- outdoors,
- as a power source for toys or games.

The POWER PACK 1300 can be used by children of 8 years and older, persons with reduced physical, sensory or mental capabilities, or persons with lack of experience or knowledge when they are supervised or instructed concerning the safe use of the device and when they understand the resulting risks. Do not allow children to play with this device. The cleaning and user maintenance must not be carried out by children without supervision.

### NOTICE

- Improper storage can reduce the performance of your battery or destroy it.

## 2.1 Type label

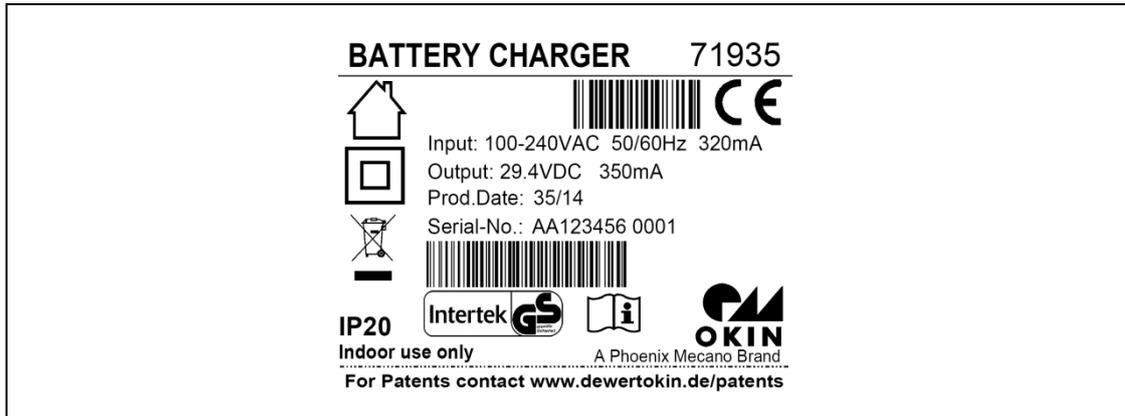


Fig. 1: Type label BATTERY CHARGER (example)

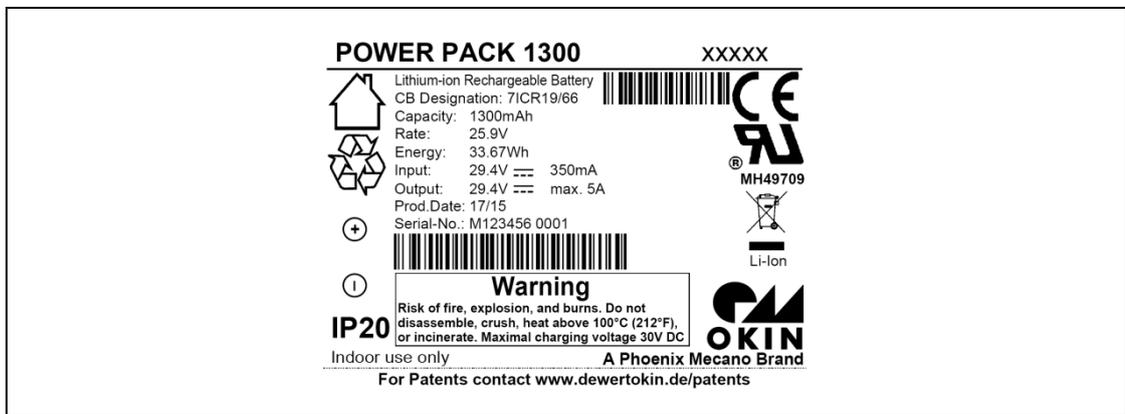


Fig. 2: Type label POWER PACK 1300 (example)

### 3. Description

The POWER PACK 1300 serves for mains independent power supply of electro motorical adjustable applications. The PowerPack 1300 has the following special features:

- The POWER PACK 1300 is used as a power supply at power failure.
- ▶ We reserve the right to make unannounced technical changes in the course of our continual product improvement process!

To charge the POWER PACK 1300 the special OKIN BATTERY CHARGER with the appropriate country version is necessary, alternate use the PD12 POWER SUPPLY with a special connecting cable (see Fig. 06)

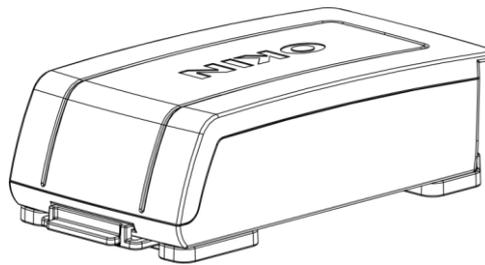


Fig. 03: POWER PACK 1300

#### Important Features

- Very low self-discharge rate
- Short circuit proof
- Overcurrent switch off
- Mounting bracket (always enclosed in package)

#### Technical data

- Lithium-Ion Akku (li-Ion) Lithium-Ion (li-Ion)
- Capacity: 1300 mAh (38.22 Wh)  
Energy: 33,67Wh
- max. voltage 29.4 V DC
- max. output current 5A
- Temperature range 0°C - 40°C
- Charging time approx. 3 - 6 h (depending on charging state)  
If charging with PD 12 it can be up to 12 h
- Low weight: approx. 450g
- approx. 500 charging cycles (depending on usage and operational conditions)

#### Options

- Acoustic warning signal for low remaining charge

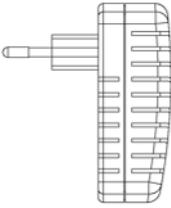
Version	Low charge warning	Power supply
POWER PACK 1300 WH-BK/ without remaining capacity warning UN 3481, CB/IEC62133, UL 1642	no	1300 mAh/DC 29,4V/<= 5A DC
POWER PACK 1300 WH-BK / with remaining capacity warning UN 3481, CB/IEC62133, UL 1642	yes	1300 mAh/DC 29,4V/<= 5A DC

**OKIN BATTERY CHARGER**  
 (100-240 VAC, 50/60 Hz , 350 mA/ 29,4 VDC)

BATTERY CHARGER for POWER PACK 1300 power plug (EURO version)

BATTERY CHARGER for POWER PACK 1300 power plug (USA version)

BATTERY CHARGER for POWER PACK 1300 power plug (UK version)

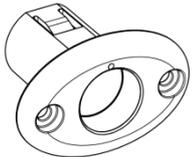


**Warning:**  
 For charging the POWER PACK 1300 the special OKIN BATTERY CHARGER or the PD12 POWER SUPPLY with special connecting cable must be used! (see fig. 06)

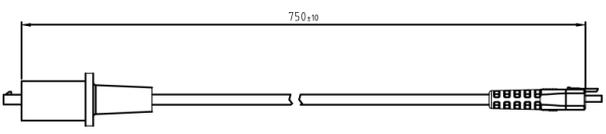
LED display (OKIN BATTERY CHARGER)  
 (green = power on - battery charged / red = charging)

**Accessories**

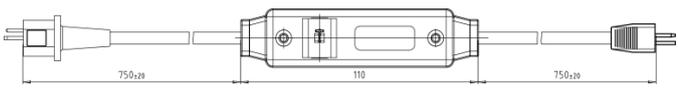
Charging socket  
 BK / RAL 9005



Connecting cable  
 2x0,34MM²x 500MM BK



Connecting cable  
 2x0,75x 840mm  
 BK LS/PVC/LS-  
 charging socket



PD12 POWER SUPPLY with  
 LS socket

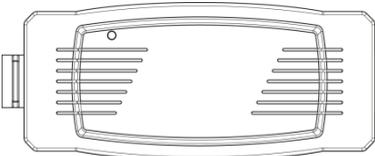


Fig. 04: Overview accessories POWER PACK 1300

### 3.1 Dimensions POWER PACK 1300 and mounting bracket

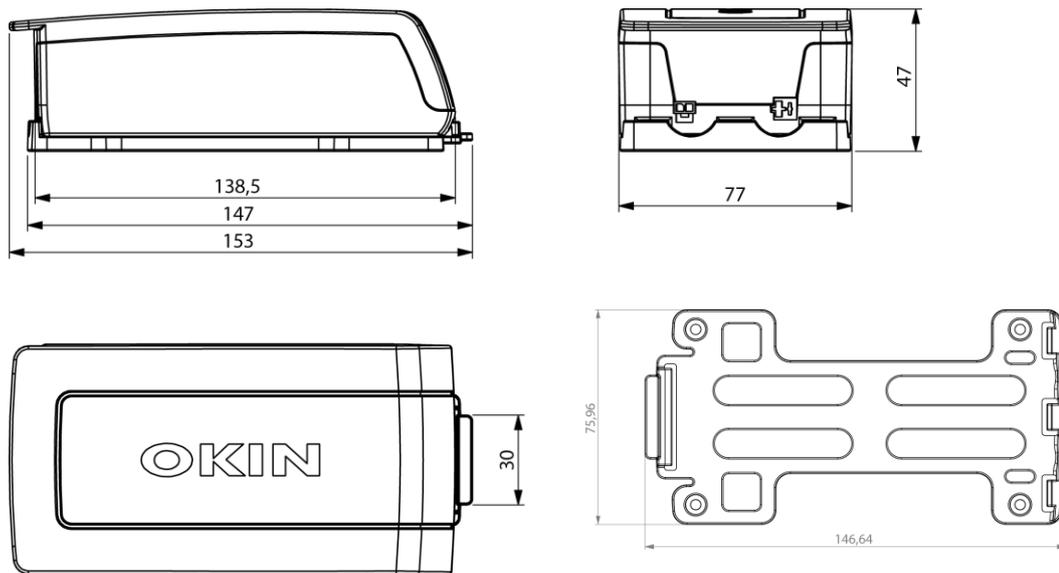


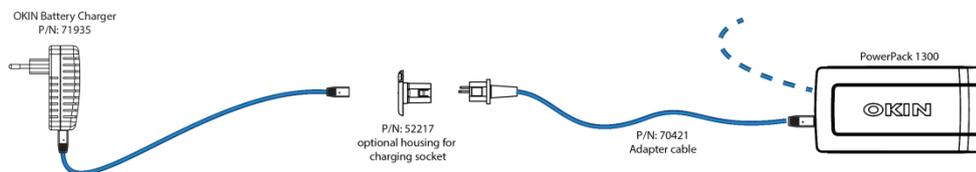
Fig. 05: Overview from the accessories POWER PACK 1300

### 3.2 Connection options

As standard the POWER PACK 1300 is charged as needed with the OKIN BATTERY CHARGER.

Optionally, instead of OKIN BATTERY CHARGER the PD12 POWER SUPPLY be used possible with special connection cable (71691) application. It is possible to adjust the application during the charging process.

#### Standard



#### Option

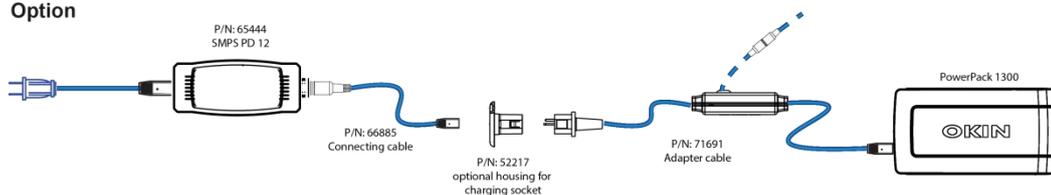


Fig. 06: Overview of charging options POWER PACK 1300

#### NOTICE

Should the POWER PACK 1300 be used in combination with operating elements that have a power consumption at rest, such as touch sensors, RF-systems or Bluetooth-adapters it perhaps must be charged more frequently.

**Please contact your supplier!**

## 4. Notes for packaging and transport



### CAUTION

#### Damaged POWER PACK 1300

A damaged POWER PACK 1300 must not be connected or taken into operation. Please contact your sales partner/supplier immediately!

The POWER PACK 1300 is shipped ex works according to the applicable packaging regulations. Take care when transporting, that the risk of falling or slipping is avoided. Before unpacking, check the secondary packaging for damages. Also check optional accessories for completeness.

To prevent injury please follow the safety instructions given in chapter 2, before you unpack your product.

If the packaging is damaged or you note a damage after unpacking, please immediately report.

In case of product return the following notes need to be observed:

When transporting Li-ion storage batteries the current regulations according to ADR for road transport and/or IATA for air shipping must be observed.

Damaged storage batteries must be assessed case by case with respect to safe transport.

Please contact your sales partner/supplier.

➡ Please consider the disposal notes in chapter 9.

## 5. Storage



### CAUTION

The battery should be stored so that the battery terminals cannot short circuit each other and so the terminals cannot be short circuited by any metal surroundings.

### NOTICE

Rechargeable batteries must be charged at least six months after their production date or charged immediately upon delivery and then after six months of storage. For some drive systems, a minimal level of current may flow even when the drive is not being used. After a prolonged period this can lead to a low charge status.

If the POWER PACK 1300 is discharged and not in use for a long time it can be damaged.

### NOTICE

The battery may not be connected to a drive system or control unit in delivery or storage condition!

The connection cable for the battery should be disconnected from the control unit or drive as well as from mains supply if you are not planning to use the drive system for an extended period. It should then be reconnected before you plan to use the system. This will prevent the battery from losing its charge in certain applications.



Do not store in direct sunlight.

### 5.1 Charging periods during storage

#### NOTICE

Following longer periods of storage, the batteries may need to be charged and discharged several times so that performance reaches a peak.

## 5.2 Operation

Type of check / action	Explanation	Time interval
<b>Recharging</b>	To maintain battery performance	No longer than six months after date of manufacture.
<b>Recharging during storage</b>	Recharge during storage to maintain battery performance capability approx. three months	At least every six months.
<b>Limit the storage time</b>	Dispose of the battery after the maximum storage time is exceeded!	Maximum storage time is 12 months

## 5.3 Technical Data for storing the batteries

Storage temperature:	from 0°C to +40°C
Relative humidity:	from 30% to 90%
Air pressure:	from 800 hPa to 1060 hPa
Altitude	< 2000m

## 6. Charging the battery

### NOTICE

Due to the chemical reactions the POWER PACK 1300 warms-up during charging.  
If the POWER PACK 1300 should become really hot, the protective circuit is defective. In this case remove the charging cable and the connection cable of the drive / control unit and check the unit (POWER PACK 1300 and OKIN BATTERY CHARGER) by an authorized technician or producer.

Exclusively use the recommended OKIN BATTERY CHARGER for charging (and make yourself familiar with the operation of the device).

Do not set up the OKIN BATTERY CHARGER in bath- or shower rooms. The charger is not splash proof.

Only recharge the POWER PACK 1300 at the temperatures given below:  
Charging temperature: from 0°C to + 40°C

Once the POWER PACK 1300 is fully charged, the LED light will turn **green** on the charger, indicating the charging cycle is complete.

Charging time of the OKIN BATTERY CHARGER may take approx. 3 - 6 h.

Charging time of the PD12 POWER SUPPLY up to 12 h. (no LED for charging indication available).

If the charging cycle is completed, disconnect the OKIN BATTERY CHARGER from the socket and the POWER PACK 1300.

## 7. Commissioning

### NOTICE

Charge the POWER PACK 1300 completely before first use.



The POWER PACK 1300 can then perform optimally when the product is being used at normal room temperatures from 18 °C to 25 °C. The operating temperature should never exceed 40 °C.



The acoustic low battery-warning built-in to the POWER PACK 1300 is only active when the drive is moving!

The POWER PACK 1300 deliver their full capacity after 5-10 charge and discharge cycles.

It is possible that after long periods of storage, several cycles of charging and re-charging may be required to restore the performance of the POWER PACK 1300.

- ➔ Connect the POWER PACK 1300 to the OKIN BATTERY CHARGER ensuring the correct connection port is used. The plug should fit securely in place.
- ➔ Connect the OKIN BATTERY CHARGER to the socket. During charging lights the LED of the OKIN BATTERY CHARGER **red**. If the charging cycle is complete lights the LED **green**.

## 7.1 Notes for operation

### **NOTICE**

If you not use the drive system for an extended period, disconnect the POWER PACK 1300 from the control unit/drive system as well as from the mains supply. It should then be re-connected if you plan to use the system. This will prevent the battery from losing its charge in certain applications.

## 8. Cleaning and care

The POWER PACK 1300 is maintenance free.

Clean the POWER PACK 1300 as needed using a dry cloth.

### **NOTICE**

Do not let the POWER PACK 1300 come into contact with humidity as water or organic solvents such as alcohol, oil, solvents and antirust agents, or agents abrasive to the surface such as chemical cleaning agents

## 9. Disposal

The POWER PACK 1300 consists of electronic components, cables and metal and plastic parts. You should observe all corresponding national and regional environmental regulations when disposing of the system.



The disposal of the end product is regulated in Germany by Elektro-G, internationally by the EU Directive 2011/65/EC (RoHS), or by any applicable national laws and regulations. (The end product is not regulated by the EU Directive 2012/19/EC (WEEE).)

The POWER PACK 1300 should not be disposed of with normal household waste!

## 10. Troubleshooting

This chapter describes troubleshooting methods for fixing problems. If you experience an error that is not listed in this table, please contact your supplier.

<b>Problem</b>	<b>Possible cause</b>	<b>Solution</b>
Handset or drive system without function	Handset or drive system defective	Contact your supplier/dealer
	POWER PACK 1300 is discharged	Charge the POWER PACK 1300
Drives suddenly no longer respond, no movement takes place	The unit's fuse may have been triggered	Contact your supplier/dealer
	A cable has been disconnected (mains power or handset, slave drive)	Check the cables, if necessary restore contact
	POWER PACK 1300 is discharged	Charge the POWER PACK 1300
	Overload fuse has been triggered	Stop operating the system for 5 sec. and charge the POWER PACK 1300

## EU Declaration of Conformity

In compliance with Appendix IV of the EU EMC Directive 2004/108/EC

In compliance with Appendix III of the EU Low Voltage Directive 2006/95/EC

In compliance with Appendix VI of the EU RoHS Directive 2011/65/EU

The manufacturer:

DewertOkin GmbH

Weststraße 1

32278 Kirchlengern

Germany

declares that the following product

**POWER PACK 1300 with DewertOkin drive system  
DewertOkin control system**

meets the requirements of the following EU directives:

**Electromagnetic Compatibility Directive 2004/108/EC**

**Low Voltage Directive 2006/95/EC**

**RoHS Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment**

Applied standards:

- EN 60335-1:2012
- EN 55014-1/A2:2011
- EN 55014-2/A2:2008
- EN 61000-3-2/A2:2009
- EN 61000-3-3:2008
- EN 62133:2003 (only for POWER PACK 1300)

This declaration of conformity is no longer valid if constructional changes are made which significantly change the drive system (i.e., which influence the technical specifications found in the instructions or the intended use)!

Kirchlengern, Germany September 16, 2015



Dr.-Ing. Josef G. Groß  
Geschäftsführer



A Phoenix Mecano Company

DewertOkin GmbH  
Weststraße 1  
32278 Kirchlengern  
Tel: +49 (0)5223/979-0  
Fax: +49 (0)5223/75182  
<http://www.dewertokin.de>  
[Info@dewertokin.de](mailto:Info@dewertokin.de)

ID-Nr.: 76265