

Nilfisk 36V Li-ion Battery Pack - Instructions for use



EN	Operating instructions	3
DE	Bedienungsanweisungen	5
FR	Instructions de fonctionnement	7
NL	Gebruiksaanwijzingen	9
IT	Istruzioni per l'uso	11
NO	Bruksanvisning	13
SV	Bruksanvisning	15
DA	Betjeningsvejledning	17
FI	Käyttöohje	19
ES	Instrucciones de funcionamiento	21
PT	Instruções de Funcionamento	23
EL	Οδηγίες λειτουργίας	25
TR	Kullanma Talimatları	28
SL	Navodila za delovanje	31
HR	Upute za uporabu	33
SK	Návod na obsluhu	35
CS	Návod k obsluze	37
PL	Instrukcje dotyczące obsługi	39
HU	Használati útmutató	41
RO	Instrucțiuni de utilizare	43
BG	Указания за експлоатация	45
RU	Руководство по эксплуатации	48
ET	Tööjuhised	51
LV	Norādījumi par ekspluatāciju	53
LT	Naudojimo instrukcija	55
JA	取扱説明書.....	57
ZH	操作说明	59
KO	사용법	61
TH	คู่มือการใช้งาน	63
MS	Arahan pengendalian	65

1 Safety instructions

WARNING



- Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electrical shock, fire and/or serious injury.

WARNING

- Recharge only with chargers specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects that can make a connection from one terminal to another. A short-circuit of the battery terminals can lead to burns, fire and serious injury.
- Under abusive condition, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from battery may cause irritation or burns.
- Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- Do not expose a battery pack or appliance to fire or excessive temperature. Exposure to fire or temperature above 130°C (266°F) may cause explosion.
- Follow all charging instructions and do not charge the battery pack outside of the temperature range specified in this instruction. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.
- Do not open, modify or attempt to repair the battery pack.
- Do not charge the battery pack in a damp or wet environment
- Do not cover the charger or the battery pack by cloth or anything else. The charger and battery pack heats up during charge and lack of ventilation may result in fire or serious injury.
- Do not use the battery pack for appliances that it is not intended for.
- Keep battery packs and chargers away from children if not thoroughly supervised
- Keep the battery pack, including the ventilation channels and contact areas clean from dirt and moisture. Avoid that dirt and moisture is getting inside the battery pack during cleaning
- Failure to comply with these warnings can lead to explosion, fire, leakage and/or serious injury

2 Introduction

2.1 Instructions for use

This manual will help you get the most from your Nilfisk appliance.

Prior to using the appliance for the first time, be sure to read this document through and keep it ready to hand.

Besides the operating instructions and the binding accident prevention regulations valid in the country of use, observe recognised regulations for safety and proper use.

RATING PLATE

The Model Number and Serial Number of your machine are shown on the rating plate on the machine.

This information is needed when ordering spare parts for the machine. Use the space below to note the Model Number and Serial Number of your machine for future reference.

MODEL NUMBER _____

SERIAL NUMBER _____

2.2 Operation

Charging of the battery pack

The battery pack is delivered approx. 30 % charged because this gives a long storage time and a safe transportation.

Connect the charger directly to the battery pack or via the appliance or mount the battery pack in the charger depending on the application. (See the User guide for the charger or for the appliance).

The battery pack should be charged in a dry environment and within an ambient temperature range of 0°C to +40°. (32°F to +104°F)

The battery pack has an integrated Battery Management System, which protects the cells against abusive charging and discharging. The system also maximizes the battery life by balancing the cells during charge.

Storage of the battery pack

A fully discharged battery pack should not be stored uncharged for more than 4-weeks maximum.

A 30 % charged battery pack (2 Green LED's) can be stored for up to 24 month in a temperature range from -20 to +40°C. (-4°F to +104°F)

Failure to observe the guide line for storage, might lead to a defect battery pack, which must be disposed of. (See section Disposal of Battery pack).

2.3 FUEL Gauge



The battery pack contains the above "Display", which consists of a Button to activate the display if not under charge or discharge, 6 green LED's to indicate the remaining capacity, a Yellow LED to give warnings and a Red LED to show errors. The available battery capacity is indicated by the first 6 LED's as follows:

1st Green LED (Flashing):	< 15 %
1st Green LED (Solid):	≥ 15 %
2nd Green LED:	≥ 30 %
3rd Green LED:	≥ 45 %
4th Green LED:	≥ 60 %
5th Green LED:	≥ 75 %
6th Green LED:	≥ 90 %

The 6 green LED's are "rolling" during charge and static during discharge.

The **Yellow** and **Red** LED gives the following information during charging:

Yellow LED (Solid): High or low temperature

The battery pack temperature is high or low and the charging time is prolonged, depending on the charger type. Regular charging will start automatically when the battery temperature is within the recommended temperature range.

Yellow LED (Flashing): No charging

The charger has been disconnected before the battery pack was fully charged.

Red LED (Flashing): No charging

The battery cell temperature is lower than 0°C (32°F) or higher than +50°C (+122°F). Charging will start automatically when the battery temperature is within a chargeable temperature.

The **Yellow** and **Red** LED gives the following information during discharging:

Yellow LED (Flashing): Low capacity

A flashing **Yellow** LED together with a flashing **Green** LED indicates that the capacity is low and that the battery pack needs recharging.

A flashing **Yellow** LED without a flashing **Green** LED indicates that the battery pack is empty and needs recharging.

Red LED (Fast flashing): No discharging

The battery temperature is lower than -20°C (-4°F) or higher than +55°C (+131°F). (Wait until the battery temperature is within operative temperature)

The **Red** LED will also give a fast flashing if the battery pack is overloaded. (Remove the overload)

Red LED (3 Fast flashes followed by pause)

The battery pack is defect and beyond repair and should not be used anymore.


All LED's will go off approx. 10 seconds after the pack has been fully charged in order to reduce the energy consumption. All the LED's will also go off approx. 10 seconds after a "Button" activation or after deactivation of the appliance.

Specifications

Battery pack	10S4P-UR18650RX	
Voltage (Nominal)	36-volt	
Capacity	See label on battery	
Compatible chargers	FW8060/48	
	BC500	
Charge time up to 90 % of full charge	FW8060/48	6 Hours
	BC500	40 minutes

Specifications and details are subject to change without prior notice.

2.4 Disposal of Battery pack

 This symbol indicates that this battery pack may not be discarded together with household waste, but must be collected separately.

Damaged or old battery packs should be disposed of in compliance with applicable federal, state/provincial and local regulations including the use of applicable collection points for recycling.

2.5 Further support

For further queries, please contact the Nilfisk service representative responsible for your country or visit our web site; www.nilfisk.com

2.6 Before use

Before starting up your appliance, please check it carefully for any defects. If you find any, do not start up your appliance.

- When the appliance is delivered, carefully inspect the shipping carton and the appliance for damage.
- If damage is evident, save the shipping carton so that it can be inspected.
Contact the Nilfisk Customer Service Department immediately to file a freight damage claim.



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