




 **WARNING: TO REDUCE THE RISK OF INJURY, USER MUST READ INSTRUCTION MANUAL.**


 Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local Authority or retailer for recycling advice.

1. SAFETY INSTRUCTIONS FOR BATTERY PACKET AND CHARGER


If under extreme conditions any electrolyte should escape from the battery, it's essential to avoid contact with skin. If electrolyte does come into contact with your skin, rinse it off with water. In the event of electrolyte contact with your eyes, it's essential to consult a doctor.

- This appliance is not intended for use by persons(including children)with reduced physical, sensory or mental capacities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their by person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- Before the use of the charger and the battery packet, read the instruction manual for it carefully.
- During the charge process, the current used should correspond to the current of the battery charger.
- Never let moisture, rain or splashed water reaches the charging location.
- The ambient temperature must not exceed 40°C. Never expose the device to direct insulation.
- Only switch off the current when the battery packet has been inserted into the box or has been pulled out of the box.
- Storage-battery packet, which are defective or damaged or can no longer be recharged, must be disposed of as hazardous waste. Hand them over at a special collection point. Never harm our environment. Do not throw unusable storage-battery packet away into the domestic waste, into fire or into water.


- If the electrical cable is damaged, the wire may only be replaced by the supplier or by his repair workshop. Have repairs carried out only by an authorized specialist only.
- Use only storage-battery packet, which have been produced by the original manufacturer.
- Always keep the surface of the charger free from dust and dirt.
- Insert the battery packet into the charger. Follow the guidelines provided concerning polarity.
- Always remove battery packet before working on the machine.
- When the battery packet is outside the drill, cover the contacts to avoid short circuits (e.g. from tools).
- Protect the battery packet from impacts, and don't open it.
- Never discharge the battery packet completely and recharge occasionally if not used for a prolonged period.

 **WARNING!** This machine produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this machine.

2. BATTERY CHARGER & PLUG

 **WARNING! THIS CHARGER AND BATTERY PACK ARE SPECIFICALLY DESIGNED TO WORK TOGETHER. DO NOT ATTEMPT TO CHARGE ANY OTHER BRAND OF CORDLESS TOOL OR BATTERY PACK WITH THIS CHARGER.**

- This 120V~60Hz charger is double insulated and therefore does not require a grounding connection. It is a sealed unit fitted with an internal fuse which cannot be replaced.
- There are no user serviceable parts inside this charger. Never remove any part of the casing unless qualified to do so. If in doubt, consult a qualified electrician.

 **WARNING! THIS UNIT CONTAINS DANGEROUS VOLTAGES.**

- For your protection, do not expose this charger to rain or use in damp locations. Do not place the charger on damp or wet surfaces; use a workbench if available. For added protection use a suitable Residual Current Device (RCD) at the wall outlet.
- This charger unit is intended for use with this specific tool only and must not be used for any other use. Do not use any other charger for charging these batteries.

 **WARNING! NEVER USE THE CHARGER IN YOUR HOME, ALWAYS CHARGE BATTERIES ON A BENCH IN YOUR WORKSHOP.**

- Never exceed the charging time specified in the manual as this could damage both the battery and the charger.
- When the battery fails to charge or maintain its charge, its usable life is exhausted. The battery should be disposed of in an environmentally friendly manner. Do not dispose of the battery in the household disposal system. Take the battery to a recycling or specialized center for disposal.

 **WARNING! DO NOT DISPOSE OF THE BATTERY BY INCINERATION AS THE BATTERY WILL EXPLODE.**

Inserting the battery

Insert the battery pack into the tool handle.

Charging the battery


The battery supplied with this power tool contains a test charge only and must be fully charged before use. Be sure to read all safety instructions before charging the battery. The battery will become warm during charging. This is normal. (Fig A & Fig B)



1. Connect the the power cord of the charge with a wall socket. The charging indicator light truns green.
2. Slide the battery onto the charger. The there intelligent battery indicators will contiue flashing when start charging. Two indicators will flash inturn when the capacity reach 70%.
3. About 3-5 hour later, battery will full charge, and the charger indicator turn green again. At the moment three indicators (green, yellow, red) light up together.
4. Unplug the charger and disconnect it from the battery pack when charging is finished.
5. Allow the battery pack cool completely before use it.
6. During working, user can check the battery status pressing the button.

LED battery capacity indicator	Capacity
Green, Yellow and Red LED on	100%
Yellow and Red LEDs on	>60%
Red LED on	>30%

 **NOTE:** Avoid charging your battery in freezing conditions as charging power will not be sufficient.

 **CAUTION: WHEN CHARGING MORE THAN ONE BATTERY PACK IN SUCCESSION, ALLOW AT LEAST 30 MINUTES FOR THE CHARGER TO COOL DOWN BEFORE CHARGING THE ADDITIONAL BATTERY.**

3. TECHNICAL SPECIFICATIONS

Charger	
Input	100-120V AC, 60Hz, 65W
Output	21.0-22.5V DC, 1.0-2.3A

LIMITED WARRANTY

Limited 3 Year Warranty:

From the date of original purchase, warrants to the original purchaser, that each power tool sold, shall be free from defect in material and workmanship, for the items and time period set forth below. Pulsar at its discretion, agrees to repair or replace any defective part that upon examination, inspection, and testing by a authorized service dealer, is found to be defective within the original warranty period. We will also decide upon the use of new or rebuilt parts or comparable product. Any part or product that is replaced, will be retained by us. This warranty period shall not be extended and any repaired product shall be warranted for the remaining period of the original warranty. The consumer is responsible, and shall prepay all transportation costs, including returning items to the factory or warehouse. This warranty is not transferable and proof of purchase must be presented for requesting warranty service. If proof-of-purchase or a receipt is not provided, the product’s shipping date by the manufacture will be used to determine the warranty period.

Length of Warranty:

Personal use applications of this power tool are warranted for three (3) years. Proof of purchase and of maintenance must be provided.

- Year 1 - Limited comprehensive coverage on all power tool components and labor.
- Year 2 and 3 - Limited coverage on power tool parts only.

“Personal use” means personal residential household use or recreational use by the retail consumer. “Commercial use” means all other uses including commercial, construction, or other income producing purposes. Once a power tool has been used for commercial purposes, it shall thereafter be considered as a “commercial use” power tool for the purposes of this warranty. Any power tool used for commercial use or rental equipment will not be covered under this warranty.

Consumer Responsibilities:

- Consumer is responsible for carefully reading and following all instructions in the owner’s manual. Any product that is damaged due to misuse or abuse will not be covered by this warranty.
- Consumer is responsible for all transportation costs to an authorized Service Center. Unless otherwise requested, ground shipping will be applied for part shipment and

- customer will pay any additional charges for expedited shipments.
- Consumer is responsible for labor costs associated with warranted repairs twelve (12) months after the purchase date. Labor rates will only be based on normal working hours.
- Consumer is responsible for maintaining power tool as specified in the owner’s manual. Documentation of this maintenance may be required to cover warranty requests.
- Consumer is responsible for presenting any problems with the power tool to an authorized Service Center as soon as the problem exists. Warranted repairs will be completed in a reasonable period of time, not to exceed 30 days.

What this Warranty Does Not Cover:

- **Maintenance:** This warranty does not cover any adjustments or repairs not performed by an authorized repair facility.
- **Misuse:** This warranty does not apply if your product has failed due to abuse, misuse, neglect, using incorrect batteries **or lubricants, overloading, over-speeding, improper maintenance, improper storage, unapproved modifications, or has** been operated in any way contrary to the instructions found in the products owner’s manual.
- **Adverse conditions:** This warranty does not apply if your product has failed due to freezing, accident, natural disasters.
- **Product Shipment:** This warranty does not apply to damage resulting from shipping, handling, or warehousing: Any **damage claims to this product caused by shipment must be filed with freighter.**
- **Other exclusions:** This warranty does not apply if your product has been sold “as is” or where the factory applied serial **number has been removed. Refurbished, used, demonstration or floor models are not covered by this warranty.**

Where Warranty is Valid:

For warranty coverage, this product must be purchased from an authorized retailer and the warranty only extends **to the original purchaser in the United States, Canada, or Mexico, Refurbished used, demonstration, or floor madels are** not covered by this warranty. Products purchased from on-line auction websites are not covered under this warranty. Products used for commercial use are not covered under this warranty.

How to Obtain Warranty Service:

Take the original receipt and product to the place of purchase or mail the original receipt and product to the address found on the web site if purchased on-line. It is recommended you retain all of your receipts covering the purchase and maintenance of your power tool. Pulsar will not deny you warranty coverage as long as proof of purchase or service can be obtained.

PULSAR OBLIGATION UNDER THIS WARRANTY IS EXCLUSIVELY LIMITED TO PRODUCT REPAIR OR REPLACEMENT AND SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, THE EXPENSE OF DELIVERING PRODUCT TO AND FROM REPAIR CENTER, LOSS OR DAMAGE TO PERSONAL PROPERTY, LOSS OF REVENUE, TELEPHONE CHARGES, LOSS OF TIME, OR INCONVENIENCE. SOME STATES, PROVINCES, OR JURISDICTIONS DO NO ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE OR PROVINCE TO PROVINCE.