



HEATED VEST

User Manual

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Included Components

A. Control
Module (1)



B. USB to 5.5mm
DC Plug (1)

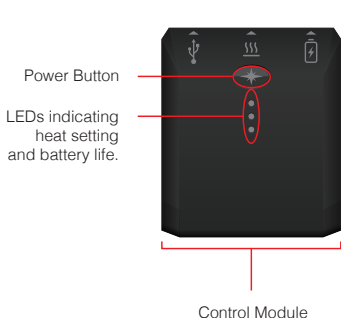


C. 12V to 5.5mm
DC Plug (1)



*Replacement parts may be purchased at Polaris.com

Control Module Functions and Operations



USB Port for charging mobile devices.



4.0 DC jack for heated vest.



5.5 DC jack for charging the Control Module, with either the USB or 12V charge cables.



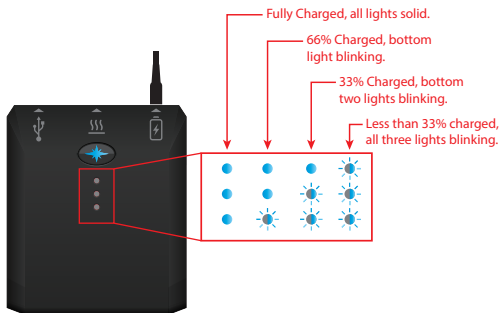
Power Button will light up when charging and discharging power.

*The heaters and LEDs only draw power from the Control Module. The snowmobile recharges the battery, but does not send power directly to heaters and LEDs. Circuits inside the Control Module protect the battery from overcharging via the snowmobile or a wall outlet.

*The Control Module is not to be used with avalanche beacons or transceivers. It may interfere with the signal.

Primary Functions

A. Charging the Control Module.



-Charge status is indicated by lights blinking in succession.

-Charge time:
4 Hours (via 5V/2A USB Charge Cable)
or <3 Hours (via 12V Charge Cable)

-Please ensure Control Module is fully charged before use.


-Plug the USB Charge Cable into the Control Module, then plug the USB Charge Cable into a USB outlet. Under this mode, the only function is charging.

-Plug the 12V Charge Cable into the Control Module, then plug into the snowmobile. Under this mode, the system supports heating functions and recharging mobile devices at the same time.

-For optimal battery life, please ensure Control Module is fully charged before use.

B. Heaters are plugged in.



 Power Button will light up blue for 3 seconds, when heaters are plugged into the Control Module.

- To turn heaters on, press and hold for 3 seconds.
- To turn heaters off, press and hold for 3 seconds.

LEDs will light up red. Heaters will begin at the high temperature setting. Press Power Button to cycle through high, medium and low settings.

- High: $113^{\circ} \pm 3^{\circ}\text{F}$: approximate time 1.6hrs
- Medium: $104^{\circ} \pm 3^{\circ}\text{F}$: approximate time 2.5hrs
- Low: $95^{\circ} \pm 3^{\circ}\text{F}$: approximate time 4 hrs

*Heating times can vary based on wind and temperature.

C. Mobile device is plugged into Control Module.



-When a mobile device is plugged into the Control Module, the blue light will stay on to indicate that it's charging. The Control Module will automatically shut off 5V power to the USB port when the mobile device is fully charged, to optimize better performance.

D. Checking battery life.



- • • >90%
- • • ≥66%-<90%
- • • ≥33%-<66%
- • • <33%

-When nothing is plugged in, press and hold the Power Button to check battery life. As soon as the Power Button is released, battery life indication will turn off.

Secondary Functions

Control Module is charging via 12V Charge Cable, heaters are turned on.



-Until heaters are turned on, Control Module indicates charging.



-When heaters are turned on, Control Module indicates temperature setting.

Tertiary Functions

Accidental turn on override/System reset

-Under any mode, if the Power Button is held down for 8 seconds, the Control Module will automatically reset and power off.

Maintenance, Storage, Laundering and Cautions

Maintenance and Storage

When storing the Control Module for extended periods of time, it's important to follow these steps to ensure its quality. If proper care has not been taken, consider the Control Module defective and dispose of properly.

- Keep the Control Module dry, wipe off snow, water or residue.
- Before storing, discharge battery life to 50%.
- Check the Control Module once a month to make sure it's at 50%, charge the Control Module accordingly if battery life has dropped below that.
- Store in a cool dry place. Make sure temperatures stay between 41°F and 68°F
- Increased elevations can effect Control Module life cycle.

Due to the nature of lithium ion batteries, when reaching its end of life, please consider proper disposal if encountering these issues:

- If the Control Module work time drops below 80%
- If the charge time significantly increases.

Laundering

When washing the vest, first make sure that the Control Module has been properly removed. Next, make sure the heating cord is tucked into the pocket and the zipper is closed. Finally, machine wash the vest on the gentle cycle and line dry.

Cautions

- Do not wear the garment next to skin. It is encouraged to wear a base layer underneath the heated vest.
- Do not expose the Control Module to any excessive conditions, these may include, but are not limited: to submerging in water, exposure to flame, excessive heat above 140°F. The heated vest is not intended for survival or extreme conditions.

- If you or anyone using the device has any medical conditions or health concerns, please consult your medical physician first.
- Do not open, break or damage the control module in anyway.
- Keep away from children.
- Do not use on animals.
- Do not put the heated vest or Control Module in the microwave or dryer.
- If the Control Module is leaking fluids, dispose of properly. If any fluids from the Control Module come in contact with the eye, do not rub eyes. Immediately, flush the eye with water and promptly seek medical attention. If any fluids are ingested, please consult your nearest Poison Control Center.

Troubleshooting

If the Control Module is not functioning properly, please follow these steps:

- Unplug and replug all connections.
- Make sure the Control Module is fully charged.
- Connect the Control Module to another electronic device through either the USB Charge Cable or 12V Charge Cable.
- Press and hold the Power Button for 8 seconds to reset the system.

Technical Specifications

Heater Specification and Test Condition

1.1 Output current	A: Battery voltage = 7.4V	B: Battery 12V recharging
1.1.1 Output current (High temperature)	1200mA (max)	1800mA (max)
1.1.2 Output current (Medium temperature)	800mA (max)	1400mA (max)
1.1.3 Output current (Low temperature)	500mA (max)	1000mA (max)
1.2 Heater work time	A: Battery voltage = 7.4V	B: Battery 12V recharging
1.2.1 Mode 1 High temperature	~1.6hours	Unlimited
1.2.2 Mode 2 Medium temperature	>2.5hours	Unlimited
1.2.3 Mode 3 Low temperature	>4hours	Unlimited
1.3 Temperature settings per mode	A: Battery voltage = 7.4V	B: Battery 12V recharging
1.3.1 Mode 1 High temperature	113° ±5°F	122° ±5°F
1.3.2 Mode 2 Medium temperature	104° ±5°F	113° ±5°F
1.3.3 Mode 3 Low temperature	95° ±5°F	104° ±5°F
1.4 Heater Material parameter:		
1.4.1 Heat Resistance	6.8Ω±10%	
2. Charging features:		
2.1 Input charge voltage	5~15V	
2.2 Charge current	1.1A max	
2.3 Charge time <4 Hours (via 5V/2A USB Charge Cable) or <3 Hours (via 12V Charge Cable)		
Notes: The charge time via 5V/2A USB Charge Cable can change based on various devices it's plugged into.		
2.4 Control Electronics charging temperature	<149°F	
3. USB port output features:		
3.1 Output voltage	5V±5%	
3.2 Output current	2A(max)	
4. Li-polymer battery:		
4.1 Nominal Capacity	7.4V/2000mAh	
4.2 Maximum Constant Charging Current	2000mA	
4.3 Operating Temperature	-68~140°F	
4.4 Cycle life	≥500 times	
4.5 Protection	PCM (Protective Circuit Module)	
4.6 Dimension	52mm x 40mm x 18mm (L x W x H)	

*For lower amperage devices(i.e. USB sources like laptops), the Control Module is unable to support simultaneous heating and charging functions.

*All temperatures are listed in Fahrenheit.

Control Module Transportation

The Control Module for your heated vest contains rechargeable lithium polymer batteries. All lithium polymer batteries are subject to various regulations for all modes of transportation in many nations. Regulatory agencies governing the transportation of these batteries include, without limitation here, the U.S. Department of Transportation, the International Civil Aviation Organization (ICAO), the International Air Transport Association (IATA), and the International Maritime Organization (IMO). For more information, please visit <http://safetravel.dot.gov>.

Control Module Disposal and Recycling



The Control Module in your heated vest contains rechargeable lithium polymer batteries. Contact the Rechargeable Recycling Corporation (www.rbrc.org) for U.S. and Canadian regulations or your local battery recycling organization.

Many countries prohibit the disposal of waste electronic equipment in standard waste receptacles. Only discard Control Modules in an approved battery-collection container.

Always check all applicable local, national, and international regulations before transporting a lithium polymer battery. Transporting a damaged or recalled battery may, in certain cases, be specifically limited or prohibited.

Regulatory Declarations

This Polaris Product uses UL Recognized Component battery cells. The Polaris Product is in compliance with California Code of Regulations, Title 20, Appliance Efficiency Regulations, and EU Directive 2006/66/EC. The electronics in this Polaris Product are also in compliance with EU Directive 2002/95/EC with respect to the following substances: lead (Pb), cadmium (Cd), mercury (Hg), hexavalent chromium (Cr(VI)), polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE).

While electronic apparel products with batteries are currently exempt from the requirements of EU Directive 2002/95/EC, we have voluntarily committed to minimize the use of these substances in our products.

Heated Vest One-Year Limited Warranty

-6-8 Week Processing Time

What this warranty covers:

This One-Year Limited Warranty covers defects in materials and workmanship. This includes defects that may occur under normal wear. Polaris does not warrant against and is not responsible for damages caused by misuse, abuse, accident, neglect, laundering, the natural breakdown of materials over time, problems that may be reasonably expected with normal wear, or for problems resulting from failure to follow use, cleaning, care and storage instructions. This warranty is void in the event of attempted battery repair by any third party.

How long this warranty lasts:

This warranty lasts for one year from the date of purchase. Coverage ends if you sell or transfer the product.

How to get warranty service:

If you have a warranty claim, please return the heated vest with the original receipt within the warranty period to your nearest Polaris dealer.

The heated vest must be cleaned prior to shipment according to its care instructions. Please include a cover letter with your name, address, daytime phone number, and a brief description of the problem. A copy of your original receipt or proof of purchase may also be required. We suggest that you send the product via a shipping service such as UPS so that the package can be tracked if necessary.

What we will do:

The Polaris Warranty Department will inspect the product at no charge to you. If the Warranty Department determines, at its sole discretion, that the product has a defect covered under this warranty, we will repair or replace it. If the defective product is not repairable and an identical product is not available, we will either replace it with a product or a comparable style, color, and function or refund the purchase price, at our discretion.

How local law applies:

This limited warranty gives you specific legal rights. You may also have other rights that vary from jurisdiction to jurisdiction, to the full extent permitted under applicable law, this limited warranty and any disputes arising out of or in connection with this Limited Warranty (Disputes) shall be governed by the laws of the State of Minnesota, USA, excluding conflicts of law principles and excluding the Convention for the International Sale of Goods. The courts located in the State of Minnesota, US. shall have exclusive jurisdiction.

Limitation of Liability:

Polaris's and your maximum liability to the other, including without limitation liability under any express or implied warranty or condition, is limited to the purchase price you paid for the product. Neither you, nor Polaris are liable to the other if you or it are unable to perform due to events you or it are unable to control, such as acts of God, or for property damage, personal injury, loss of use, or any other consequential, indirect, incidental, punitive or special damages, however caused, whether for breach of warranty, tort (including negligence,) strict liability or otherwise, other than any damages which are incapable of limitation, exclusion or restriction under applicable law. Some jurisdictions do not allow limitations or exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you in whole or in part.

If any provision of this Limited Warranty is unlawful, void or unenforceable, that provision shall be deemed severable and shall not affect any remaining provisions. If there is any inconsistency between the English and or other versions of this Limited Warranty, the English version shall prevail.

Customer Service:

Please contact Polaris Industries with any questions, comments or concerns.
USA and Canada: 1-800-POLARIS

For international inquiries, please work with your distributor.

FCC Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed properly and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try and correct the interference by one or more of the following measures.

- Reorient or relocate the receiving Control Module.
- Increase the separation between the antenna and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

MODIFICATIONS: Modifications may void the user's authority to operate the device under FCC regulations and must not be made.