

# ORION 450LAH 1.2V 4500mAh

## Ni-MH Rechargeable Battery

Pilsan Elektronik manufactures custom nickel metal hydride battery packs and assemblies. Our battery design team uses the latest mechanical and electronic design tools to optimize the reliability, safety and manufacturability of your custom battery packs. This gives you the most cost effective and dependable nickel metal hydride battery pack solution for your specific needs. Ni-MH cells and batteries are generally lower cost than lithium rechargeable cells and batteries and are not as heavily regulated.



### SAFETY

- + Do not reverse charge batteries.
- + Do not short circuit batteries permanent damage to batteries may result.
- + Do not subject batteries to adverse condition such as extreme tempeture, deep cycling and excessive.
- + Store batteries in a cool dry place. Always discharge batteries before bulk storage or shipment.c
- + Do not solder directly to cells or batterie.
- + If find any noise, excessive temperature or leakage from a battery, please stop its use.
- + Do not incinerate or mutilates batteries, may burst or release toxic material.
- + Do not mix new batteries in use with semi-used batteries, over discharge may occur.
- + Do not remove the outer sleeve from a battery pack nor cut into its housing.
- + Never put a battery into water or seawater.
- + Batteries should be charged prior to use.
- + Use the correct charger for Ni-MH batteries.
- + Keep away from children.

### TECHNICAL DATA

Cell Dimensions Cell	18x68mm
Weight	64g ± 2g
Cell Capacity (nominal/minimum) (0.5C Rate)	4500mAh
Voltage (nominal)	1.2V
Internal Resistans	<20mΩ
Energy Density	5.40 Wh
Recommended Standard Charge Method	450 mA – 0.1C
Maximum Charge Method	2250 mA – 0.5C
Trickle Charge	0.02C – 0.05C
Maximum Continuos Discharge	4500 mA - 1C
Cycle Life	500 cycles
Operating Temperature	-20°C to 60°C
Storage Temperature	-20°C to 45°C
Charge Retention	≥2700mAh(%60) / 28days