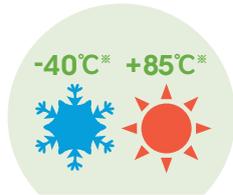


FDK Ni-MH batteries are resistant to over-charge and over-discharge, have excellent safety, and can be easily transported. In addition, Ni-MH batteries are easy to recycle because they contain a high nickel content.

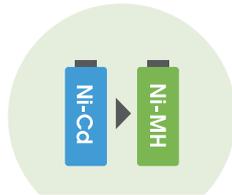


Rechargeable and environmentally friendly



Usable in a wide temperature range

* Limited to high durability type for in-vehicle applications.



Best for replacing Ni-Cd batteries due to longer life



High recyclability



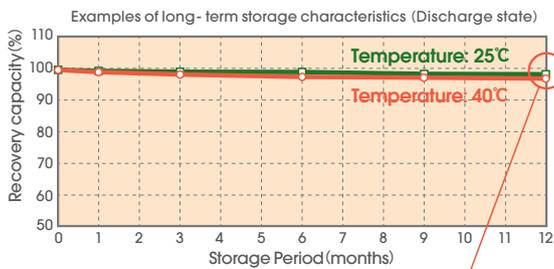
Easy to transport

Features of FDK Ni-MH batteries

FDK original technologies

Positive electrode material

Nickel hydroxide coated with a highly conductive cobalt compound



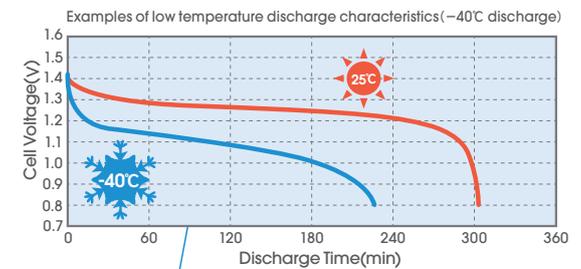
Low capacity loss after long storage

Model: HR-AAULT Charge: 1000mA (-ΔV=10mV) Rest: 1hour
Discharge: 1000mA (E.V.=1.00V)
Ambient Temperature: 25°C



Negative electrode material

Super lattice hydrogen absorbing alloy



Can be used even at -40°C depending on usage conditions

Model: HR-AAUTEW Charge: 460mA (-ΔV=10mV) Ambient Temperature: 25°C
Rest: 3hours Discharge: 92mA (E.V.=0.80V)
Ambient Temperature: -40°C

Applications for FDK Ni-MH batteries

FDK's line-up of Ni-MH batteries offer an exceptional solution for your energy needs, and can be used in a wide variety of applications to enhance performance while extending runtime.

	High Durability for In-Vehicle Applications	High Durability	High-Rate Discharge	Standard	Dry Cell Compatible
1 Security	dashboard cameras SVT-tracking	security cameras ATM			
2 Transportation		reefer containers railroad crossing security equipment	electric bikes		
3 Emergency		emergency lights			
4 Medical & health care		bedside monitors	electric wheelchairs nursing lifts		automatic blood pressure monitors
5 Lighting		street light solar systems		external camera flashes	flashlights
6 Home appliances				electric shavers	wireless mice remote controllers
7 Information	eCall T-Box	UPS, base stations		wireless devices audio equipment	wireless keyboards transceivers
8 Construction		lift landing devices			

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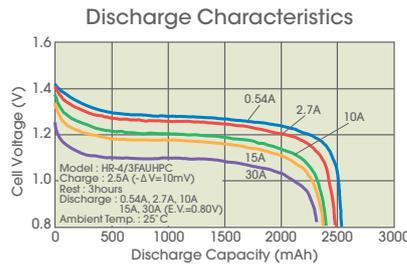
High-Rate Discharge Ni-MH Batteries



Suitable for high drain use with stable voltage.

Features

- **Superior high-rate discharge characteristics**
FDK's original electrode manufacturing process, coupled with specialized current collectors minimize internal impedance, which in turn enables high-rate discharging and secures a stable discharge voltage.



Applications

- Electric tools, nursing lifts, electric motor applications, etc.



Specifications

Model	HR-4/5FAUP	HR-4/3FAUHPC	HR-SCU	HR-4/3FAUPC	HR-4/3FAUP	
Nominal Voltage	1.2V	1.2V	1.2V	1.2V	1.2V	
Typical Capacity ^{※1}	1950mAh	2700mAh	3000mAh	3200mAh	4000mAh	
Minimum Capacity ^{※2}	1800mAh	2500mAh	2700mAh	3050mAh	3750mAh	
Quick-Charge ^{※3}	Current	1950mA	2700mA	3200mA	4000mA	
	Time	1.1h	1.1h	1.1h	1.1h	1.1h
Dimensions (incl.tube) ^{※4}	Diameter	18.1mm ^{※5}	18.1mm ^{※5}	23.0mm	18.1mm ^{※5}	18.1mm ^{※5}
	Height	43.2mm ^{※5}	67.0mm ^{※5}	43.5mm	67.0mm ^{※5}	67.0mm ^{※5}
Approx. Weight	39g	57g	59g	60g	59g	

※1: Typical capacity when a single cell is discharged at 0.2It after being charged at 0.1It for 16 hours. ※2: Minimum capacity when a single cell is discharged at 0.2It after being charged at 0.1It for 16 hours. ※3: Consult FDK according to conditions of use. ※4: Including heat shrink tube. ※5: Including paper tube / heat shrink tube.

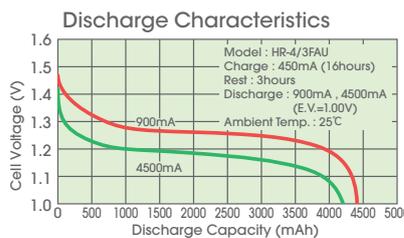
Standard Ni-MH Batteries



Suitable for long time use.

Features

- **High energy density**
Standard Ni-MH batteries achieve a high energy density by using exclusively developed materials and construction. Standard Ni-MH batteries can allow for an extended run time in various applications.



Applications

- Audio / video equipment, information / communication devices, lighting equipment, measuring instruments, home appliances, toys, etc.



Specifications

Model	HR-AAAUC Long Life Type	HR-AAUC Long Life Type	HR-AAUE	HR-AAU	HR-4/5AU	HR-AUE	HR-4/3AU	HR-4/3FAU
Nominal Voltage	1.2V	1.2V	1.2V	1.2V	1.2V	1.2V	1.2V	1.2V
Typical Capacity ^{※1}	700mAh	1200mAh	1400mAh	1650mAh	2150mAh	2700mAh	4000mAh	4500mAh
Minimum Capacity ^{※2}	650mAh	1100mAh	1250mAh	1500mAh	1950mAh	2450mAh	3600mAh	4100mAh
Quick-Charge ^{※3}	Current	700mA	1200mA	1400mA	1650mA	2150mA	2700mA	3000mA
	Time	1.1h	1.1h	1.1h	1.1h	1.1h	1.1h	1.4h
Dimensions (incl.tube) ^{※4}	Diameter	10.5mm	14.2mm	14.2mm	14.2mm	17.0mm	17.0mm	18.0mm
	Height	44.5mm	50.0mm	50.0mm	50.0mm	43.0mm	50.0mm	67.5mm
Approx. Weight	12g	22g	25g	27g	33g	39g	53g	59g

※1: Typical capacity when being discharged at 0.2It until the voltage reaches to 1.00V within 1 hour after a single cell being charged for 16 hours at 0.1It. ※2: Minimum capacity when being discharged at 0.2It until the voltage reaches to 1.00V within 1 hour after a single cell being charged for 16 hours at 0.1It. ※3: Consult FDK according to conditions of use. ※4: Including heat shrink tube.

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Battery Pack, Battery System

FDK provides options for battery packs and battery systems depending on the requirements of each application.

When battery cells are used in equipment, most instances are as battery packs or battery systems. FDK has a wealth of experience with battery packs, as well as both custom designed and standard battery systems. We design and manufacture with consideration of battery safety and reliability for each application.

- Battery pack (assembly of multiple cells)
- Battery system (assembly of multiple cells with BMS that controls charge and discharge)
 - ↳ Custom designed battery system
 - ↳ Standard battery system

Incorporating Battery Packs

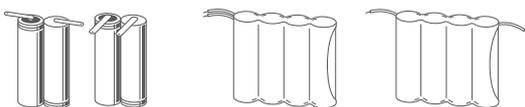
Standard Configuration

When using battery cells, in equipment, battery model, number of cells and shape will differ depending on rated power, space and usage conditions of equipment.

● Connection shape

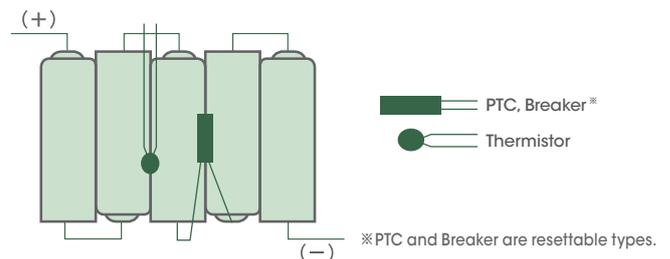


● Terminal direction



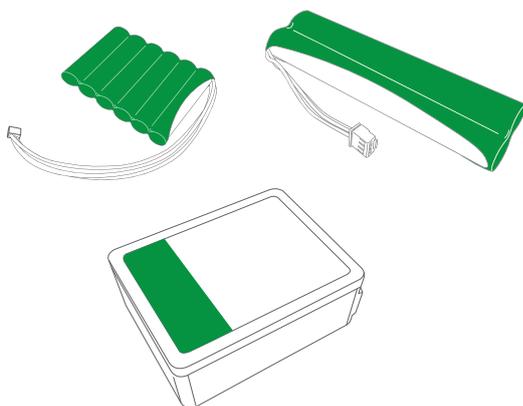
Safety Device

When designing an assembled battery, it is necessary to install a safety device in case of charger failure and external short circuit. FDK recommends that the following parts are built into the assembled battery.



Example of Battery Pack Shapes

FDK can produce battery packs with various shapes according to usage. Our cases can be made from heat shrink tubing, resin, metal, etc. Please consult us regarding the electrical wiring and terminal types.



Usage of Battery Packs

Our products are used in various applications such as in-vehicle applications, emergency lights, home-use, etc. Please contact us about the usage of applications, ambient temperature, charge and discharge conditions, etc.



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