

High Capacity NiMH Battery Range and SafeCharger™

NiMH Battery Pack Part Numbers:

12V 13Ah pack	7141-0079
12V 9Ah pack	7141-0081
24V 13Ah pack	7141-0080
24V 9Ah pack	7141-0082



Rechargeable NiMH batteries are rapidly becoming more advanced and their uses are spreading into a wide variety of applications. Recent developments have seen the introduction of higher capacity NiMH cells. Accordingly, the demands for safe and fast battery chargers have increased. DMS has recognised the importance of providing both the battery and charger as a system to provide safe, reliable performance.

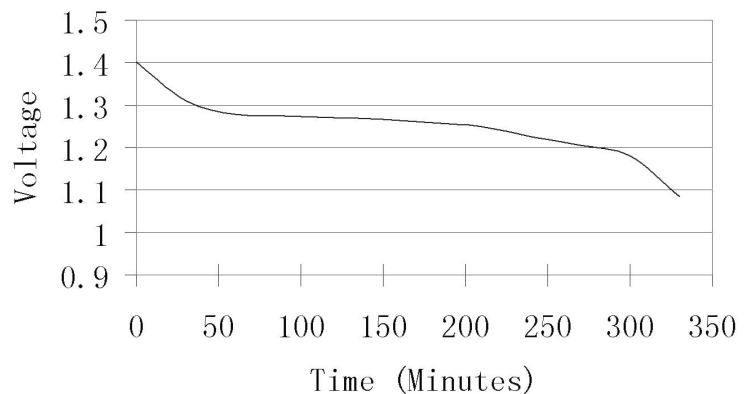
Our range of NiMH batteries combines high energy density with excellent cycle life. In particular the 13Ah F cell and 9Ah D cell combine the advantages of good capacity with light weight, making them particularly suitable for portable devices. Our NiMH cells have excellent shock and vibration characteristics and with an operating temperature range during discharge of -30°C to $+60^{\circ}\text{C}$, these batteries can be used in the harshest of environments. They also have the ability to be discharged in any orientation.

The NiMH battery offers design versatility. They are ideal for custom build designs and standard applications requiring high performance.

Battery Features

- Excellent reliability
- Up to 100% higher capacity than Nickel Cadmium
- Long service life
- Sealed maintenance free
- Excellent shock resistance
- Protected by resettable thermal fuse
- Temperature sensor for charging control
- Fitted with female XLR connector

0.2CA Discharging



Red Flash™ SafeCharger for NiMH Batteries

Part No. 12V (10 cell) UK plug : 7700-0066

Part No. 24V (20 cell) UK plug : 7700-0067

The DMS NiMH SafeCharger has been specifically designed for charging large capacity Nickel Metal Hydride batteries. The charger output current is 3A, which is suitable for charging batteries at standard and fast rates.

During charging, NiMH cells rely on correct termination and charging algorithms to prevent cells from overheating and causing permanent damage.

NiMH cells must be recharged by the constant current method. For large capacity batteries such as the 9Ah and 13Ah cells the charger termination is more critical due to the thermal issues of the battery. The SafeCharger incorporates three types of charge termination:

- Voltage sensor
- Temperature sensor
- Safety timer

The NiMH SafeCharger is fitted with thermal feedback sensors to ensure optimum safety.

The NiMH SafeCharger is available in both 12V and 24V formats and can charge up to 20 cells. Fitted with male XLR connector.



SafeCharger Features

- Designed to safely charge large capacity Nickel Metal Hydride batteries
- Three methods of charge termination
- Suitable for up to 20 cells in series
- Can recharge the packs in less than 6 hours from fully discharged.
- Professional and robust construction.
- Operating temperature 0 to +45°C
- Input voltage 200-240VAC

DMS technologies designs and manufactures specialist battery systems and portable power units. For further details or technical support, contact our Sales Team.

DMS technologies reserves the right to change specification without notice



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