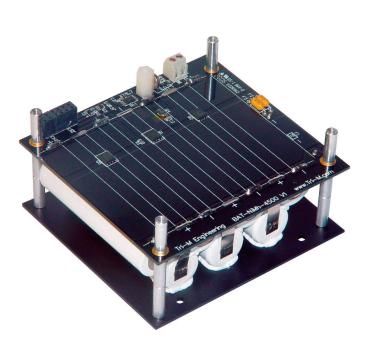
🗲 BAT-NiMh45

NiMh Battery Backup for HESC & HPSC

POWER OS TRI-M

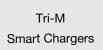
PC/104 footprint Power Backup

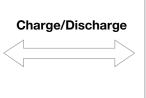


The BAT-NiMh45 is an 8.4V nominal @ 4500mAh NiMh battery module that when combined with a Tri-M HESC or HPSC smart charging power solution creates a complete uninterruptable power system (UPS) in a PC/104 footprint. Designed as a rugged backup power source, the BAT-NiMh45 supplies backup power and includes current and thermal fuse protection and digital battery temperature sensor monitoring. A UPS system that includes the BAT-NiMh45 can be woken from the "hibernate mode" with a remote wake up signal or from the built-in real-time clock.

Block Diagram

HESC/HPSC





BAT-NiMh45

8.4V @ 4500mAh



Key Specifications

- Complete UPS System
 When combined with HESC or HPSC
- Industrial NiMh Batteries 7x 4/3A 1.2V 4500mAh (nom.)
- Digital Temperature Sensor
 Reports battery temperature
- Operating Temperature Charge 0 to 40C Discharge -10 to 65C

Advantages

- Rugged Design
 For harsh environments
- Battery Mosfet Isolation
 Eliminates power loss when system off
- Installs on any HESC or HPSC power supply No configuration required
- High capacity long life batteries
- PC/104 footprint

Applications

- Military & Civil Vehicles
- Aerospace & Defence
- Industrial Automation
- Telecommunications
- Undersea & Marine



Toll Free 800.665.5600 (North America) Direct 604.814.5069

Specifications

Electrical

Backup Power 7 NiMh 4/3A batteries 8.4V @ 4.5Ah (nominal) 136,000 joules

Backup Time Up to 60min for 45W load

Protection Fuses High temperature fuse activates at 84C High current fusing activates at 14A

Mechanical

Dimensions

90mm x 96mm (3.55" x 3.775") For height see Module Configuration & Integration

Weight 220g (7.8oz)

Environment

Operating Temperature

Charge 0 to 40C (32 to 104F) Discharge -10 to 65C (14 to 149F)

MTBF

540,876 Hours (Calculated)



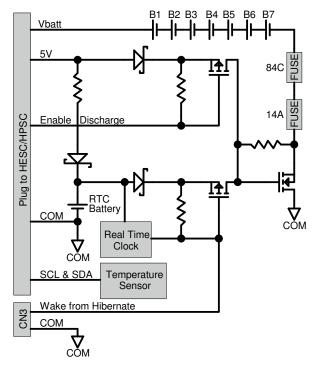
Notes Schematic for Visual Reference only. Please see the User Guide for a detailed schematic.

Ordering Information

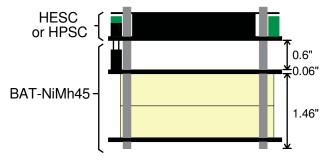
Models

BAT-NiMh45-PBF, 8.4V @ 4.5AHr, NiMh battery module with real-time clock

Block Schematic



Module Configuration & Integration



Options

where [-Cy] is the optional conformal

coating selection

- "-CS" is silicon conformal coating
- "-CU" is urethane conformal coating
- "-CH" is HumiSeal conformal coating
- ex: BAT-NiMh45-CU-PBF; 8.4V @ 4.5AHr backup module with urethane coating.



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