Specification of

Protection Circuit Module (PCB) with LED Fuel Gauge for 10 cells (12V, 5A limited) NiMH/NiCd Battery Pack





AA Portable Power Corp (http://www.batteryspace.com) Address: 860 S, 19th St, Unit A, Richmond, CA, 94804 Tel: 510-525-2328 Fax: 510-439-2808 Email: Sales@batteryspace.com Prepared & Approved by Max Liu (01/01/12)

Protection Circuit Module with LED Fuel Gauge For 12V NiMH/NiCd Battery Packs

This protection circuit is specially designed for 12V NiMH/NiCd Battery pack with 5.0A discharging rate.

- Keep 12V NiMH/NiCd Battery pack from over-discharge (10V) •
- None over-charge protection •
- Limit 12V NIMH/NICd Battery pack's discharging current below 5.0A.
- 5 LEDs display battery pack's voltage
 - LED1 (Red) = pack voltage: 10.8-11.5V (must recharge battery) 0
 - LED2 (Yellow) = pack voltage: 12.5-12.9V
 LED3 (Green) = pack voltage: 13-13.4V
 LED4 (Green) = pack voltage: 13.5-13.9V LED2 (Yellow) = pack voltage: 12.5-12.9V (battery need recharging)

 - o LED5 (Green) = pack voltage: > 14V (battery is fully charge)

Features:

- Apply for 10Cells NiMH/NiCdBattery pack with discharging current <5.0A •
- Dimension (LxWxH): 50mm(2.0") x 30mm(1.2") x 10mm(0.4")
- Weight: 5.6 grams (0.20z)

Connection Diagram:

Input positive = BAT + = 12V positive

Input negative = BAT - = 12V Negative

Output positive = Vout + (Solder spot above Vout-) = Charge + / Discharge +

Output negative = Vout- = Charge - / Discharge -



Warning:

- You must be professional in NiMH/NiCd battery pack to buy the PCB. Misusing PCB may cause battery damage or explode. We are not responsible for any damage caused by user.
- Don't use this PCB with Li-Ion / LifePo4 battery pack
- Must charge battery pack up to 12VDC minimum
- Must disconnect load from PCB to "Reset" PCB
- Since this PCB does not have over-charge protection function, must use our 12.0V NiMH/NiCd smart charger to recharge 12V battery pack.