



Atrie Technology Inc.

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## **PCB-2A2**

**Portable Charger USB interface**

**AA rechargeable battery 2 Cell**

**Applicable for iPhone 3G/3GS**

**Data Sheet**

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## PCB-2A2

2 battery cell Bi-direction portable charger

Charging and be charged

### **Application:**

1. Instant charger on the go for portable device like mobile phone, MP3, PMP, PND, GPS, DV, game device, etc.
2. Bundled rechargeable NiMH battery supports charged cycle up to 700 times.

### **Technical specification:**

1. For use with two AA size primary(alkaline) or rechargeable NiMH battery in serial as input.
2. For use with one-cell Li-ion powered portable device as charging output.
3. Automatic startup upon connection to portable device.
4. Automatic shutdown when no current drawn at output.
5. Automatic shutdown when input battery is depleted, which two NiMH batteries in series voltage drops below 1.53 V.
6. Up to 84% efficiency.
7. Open-circuit voltage 5.05~5.3V.
8. Output current depends on input battery voltage and output voltage.
9. Disconnection of output as circuit board temperature rises above  $53\pm 4$  °C.
10. Blue LED blinks when it charges portable device (in current control mode, transfer energy from side to side). Blue LED turns off as output disconnects from portable device (in burst control mode). There are 10~11 Blue LED blink delay from charging to disconnection. Red LED blinks when it is charged from PC USB port. Red LED turns off as it is disconnected from PC USB port or internal NiMH batteries are fully charged. There are 10~11 blue LED blink delay when the charger is disconnected from PC USB port.
11. USB type A connector as charging interface with portable device.
12. USB mini B connector as be charged interface from PC USB port.
13. As its USB mini B connector are connected with PC USB port, it automatically start charging internal NiMH batteries if they are not fully charged.
14. Two AA NiMH 2000mAh batteries are charged in 6~8 hours with a charged current within 400mA (Average).
15. It functions end of charged by detecting NiMH battery voltage, temperature over  $53\pm 4$  °C and maximal charged time over 10 hours.

16. It is designed with safety protective from short circuit at its connectors and reverse polarity of the internal rechargeable battery.
17. Maximum ratings : Max input battery voltage 3.6V. Max output voltage 5.25V.
18. Charger dimensions: 68x 63x 25 (LxWxH) in mm.
19. Weight: 46g(without batteries).
20. Material composition of plastic housing : ABS.
21. NiMH battery storage temperature range, -20°C~+50°C.
22. Operation temperature range: charging, 0°C~+45°C.
23. Operation temperature range: charged, 0°C~+40°C
24. Planned compliance Test: CE, FCC, VCCI, BSMI, RoHS.
25. Bundle battery: Energizer rechargeable NiMH 2000mAh battery.





