B421 4-Cell Ni-MH PPB Specification
GP version

1 Scope:

This is a Ni-MH battery charger and power bank with 2 channels.
If no other specified on the test condition, all of the data specified are at room temperature - 23℃, voltage and current are tested at the point of the input and the batteries contact plates

2 Rated input voltage/current: DC 5.0V/1.0A min.

3 Rated charging current (average current at DC 5.0V 1.0A min., @ Battery voltage as 2*1.4V)

AA size: 400mA+/-10%

AAA size: 320mA+/-10%

4 Charge time: (input DC 5.0V 1.0A min.)

2000mAh AA battery, About 360 min.

800mAh AAA battery, About 180 min.

5 Trickle charge current (input DC 5.0V)

AA/AAA size: about 50mA.

6 Application: can charge 2/4 pcs Ni-MH AA/AAA batteries

7 Indication (2pcs green color LED):

Condition	LED Indication
	Green
No battery inserted	OFF
Power on	Four LEDs ON for 0.5s & then all OFF
Charging in progress	LED flashes at 0.5 Hz
Charging is finished and into trickle charge	ON
Bad/ Primary battery inserted	Flashes at 3.3 Hz

8 Battery leakage current: 100uA max.

9 Termination mode

9.1 Safety timer: 8hr. +/-10%

9.2 –dv

10 Protection

Reverse polarity protection

Primary battery protection

11 ENVIRONMENTAL COMPLIANCE

11.1 Operating temperature range : 0-35 degC

11.2 Storage temperature range : -25-60 degC

11.3 ROHS/REACH compliance

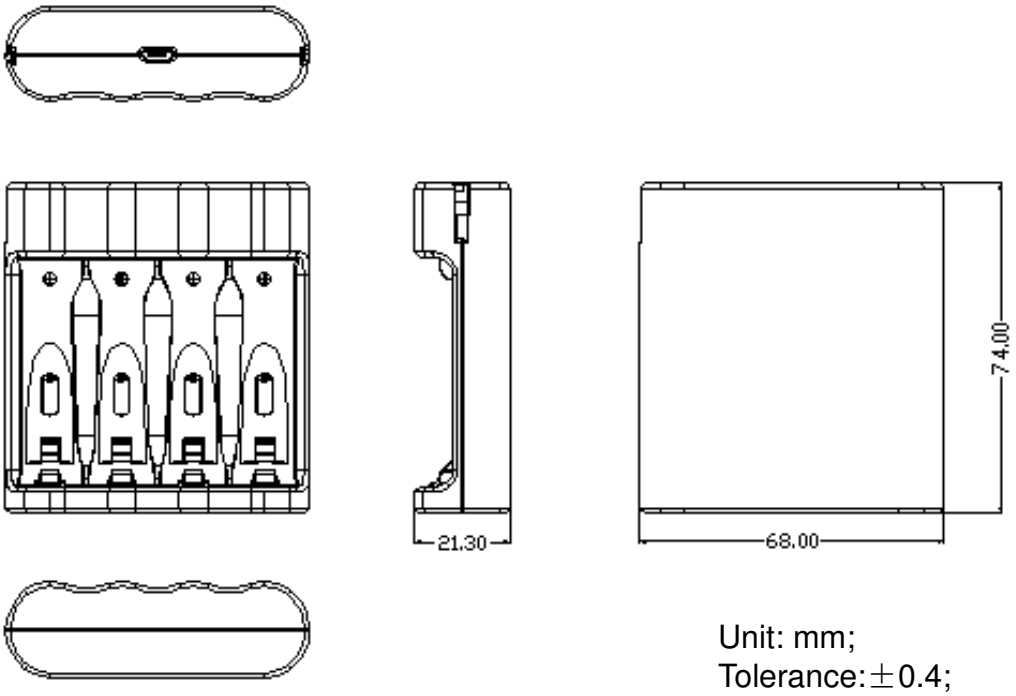
12 SAFETY & EMC COMPLIANCE

12.1 Electrostatic Discharge : IEC61000-4-2

12.2 Radiation Emission & Immunity : EN55022/55024

12.3 FCC: 4 CFR Part 2 and Part 15 Class B

13 Outline dimension



Unit: mm;
Tolerance:±0.4;

Outline

14 MECHANICAL CHARACTERISTICS

14.1 Drop resistance : No visibly damaged at 1m & 6 times, on concrete floor. No defects that would impair normal operations.

14.2 Assembly test with charging station: Durability for insertion and withdrawal : 1000 cycles, cycle rate of 360 cycles per hour. No visibly damaged, No defects that would impair normal operations.

14.3 Protection from reverse insertion of battery : No positive terminal electrical contact

14.4 Pull force with inserted GP 2600mAH NiMH battery <15N

14.5 Compressed strength with inserted GP 1300mAH NiMH battery : No dropping of when the unit having battery facing the floor without Battery Cover.

14.6 USB Connectors

14.6.1 Durability for insertion and withdrawal : 1000 cycles, cycle rate of 500 cycles per hour if using auto tester, 200 cycles per hour if manual

14.6.2 No visibly damaged, No defects that would impair normal operations

14.6.3 Meet the insertion & withdrawal force requirement after 1000 cycles at a maximum rate of 12.5mm/min. (refer to USB requirements)

14.6.3.1 MicroB insertion force < 35N

14.6.3.2 MicroB withdrawal force > 8N

14.6.4 Good visible alignment

14.7 Cosmetic & Graphics : Detail requirement defined by ID Design Team

14.7.1 No visible scratch & dirt & flashes & chromatic aberration on surface.

14.7.2 Assembly gap of all mating parts： no movable gap

14.7.3 Graphic & printing robustness & endurance : refer GP – PQ