

**SPECIFICATION FOR  
MODEL NO. : H01501020-US-1  
Ni-MH/Ni-Cd SMART CHARGER**

AA Portable Power Corp.  
Website: <http://www.batteryspace.com>

Address: 2700 Rydin Road, unit C Richmond, CA, 94542  
Tel : (510)-525-2328  
Fax: (510)-525-4728

DESCRIPTION		SPECIFICATION		AA Portable Power	
MODEL NO.		H01501020-US-1		DOCUMENT NO.	
PREPARED BY	DESIGNED BY	CHECKED BY	APPROVED BY	ISSUED DATE	Mar-05-2006
WILSTAR	WILSTAR			REV.	A

Rev	Description	Date
A0	Original	Mar-05-2005

<b>1.0 INPUT</b> .....	<b>4</b>
1.1 Voltage.....	4
1.2 Frequency.....	4
1.3 Current.....	4
1.4 Inrush current .....	4
1.5 Power efficiency.....	4
<b>2.0 OUTPUT</b> .....	<b>4</b>
2.1 charge curve .....	4
2.2 Led display .....	4
<b>3.0 PROTECTION</b> .....	<b>5</b>
3.1 Over voltage protection.....	5
3.2 Short circuit protection.....	5
3.3 Output reverse input protection.....	5
<b>4.0 HI-POT:</b> .....	<b>5</b>
4.1 HI-POT.....	5
<b>5.0 ENVIRONMENT:</b> .....	<b>5</b>
5.1 Ambient operation temperature.....	5
5.2 Ambient operation relative humidity .....	5
5.3 Ambient storage temperature .....	5
5.4 Ambient storage relative humidity .....	5
<b>6.0 SAFETY:</b> .....	<b>6</b>
6.1 Safety.....	6
<b>7.0 EMI:</b> .....	<b>6</b>
7.1 EMI.....	6
<b>8.0 DROP TEST</b> .....	<b>6</b>
<b>9.0 VIBRATION TEST</b> .....	<b>6</b>
<b>10.0 MTBF</b> .....	<b>6</b>
<b>11.0 DIMENSION</b> .....	<b>6</b>

## 1.0 INPUT

### 1.1 Voltage

Minimum	Normal	Maximum	Unit
100	115/230	240	Vrms

### 1.2 Frequency

47Hz~63Hz

### 1.3 Current

2.0A.(MAX)

### 1.4 Inrush current

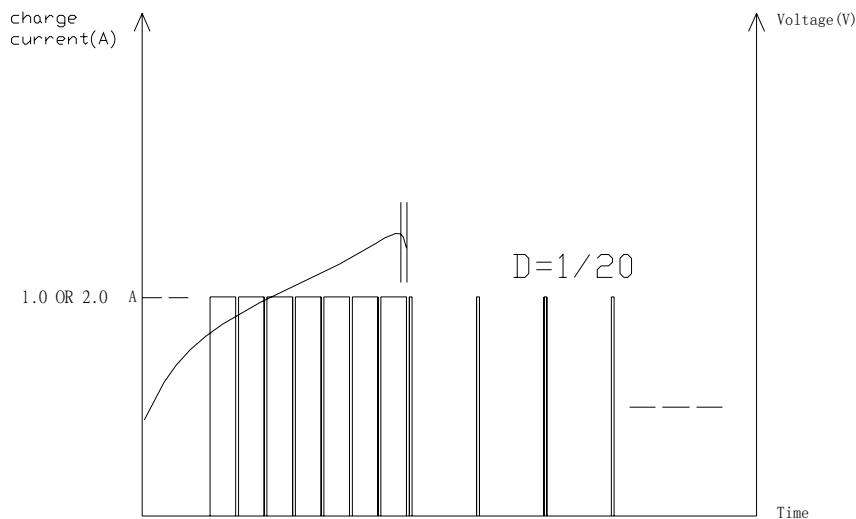
115V/40A(max.), 230V/80A(max.)  
at 25°C at cold start.

### 1.5 Power efficiency

75% (min.) at full load, 115Vac 60Hz.

## 2.0 OUTPUT

### 2.1 Charge curve



2.1.1 This charger can charge 8-15 pcs series Ni-MH/Ni-Cd battery.

2.1.2 Its output voltage is 0V at standby.

2.1.3 End charge by  $-\Delta V$  (about 5mV) detection, after detection  $-\Delta V$ , It will turn to Trickle-off charge, its charger current is fast charging current of 1/20.

## 2.2 Led display

- 2.1.1 Red and green led flash for 2 times after the unit connect AC source, then both off.  
Led off on standby  
Red led on charging  
Green led on full charge  
Red flash on error status

## 3.0 PROTECTION

### 3.1 Over voltage protection

Sense level	Over voltage
+15V	18Vmax.

### 3.2 Short circuit protection

The output short to ground, it will auto-recovery without damage.

### 3.3 Output reverse input protection

When output reverse input, the unit and the battery will be no damage.

## 4.0 HI-POT

### 4.1 HI-POT

P~S:1800Vac 3S, the leakage current will be lower than 10mA.

## 5.0 ENVIRONMENT:

### 5.1 Ambient operation temperature

0°C to +40°C

### 5.2 Ambient operation relative humidity

20% to 85%

### 5.3 Ambient storage temperature

-40°C to +70°C

### 5.4 Ambient storage relative humidity

10% to 95%

## 6.0 SAFETY:

6.1 UL1310

6.2 CE

6.2.1 EN60335-2-29

**6.2.2 EN60335-1**

**7.0 EMI:**

**7.1 FCC part15**

**7.2 EN55022 classB**

**7.3 EN55024**

**7.4 EN61000-3-2**

**7.5 EN61000-3-3**

**8.0 DROP TEST**

**8.1** Put the unit on the wooden, freely drop from the height of 1.3m with 500g ball, 2 times per side.

**9.0 VIBRATION TEST**

**9.1** Vibration frequency: 5-60-5Hz with 10 octave/min @2.1G

**9.2** Three circles per axis (X, Y, Z) for 10 minutes

**10.0 MTBF**

40,000 hours base on bellcore TR332 document required at 25°C.

**11.0 Dimension**

Outline dimension: 120L X 60W X 38(H) mm MAX;