

**SPECIFICATION FOR  
Three Channel Universal Charger for  
three 9.6V-18V or one 36V NiMH/NiCd Pack**



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## 1.0 FEATURE

- 1.1 It is three channels universal fast smart charger,each channel can charge any 9.6-18.0V Ni-MH/Ni-Cd battery packs;
- 1.2 It can charge 36.0V Ni-MH battery pack,also can charge any 9.6-18.0V Ni-MH/Ni-Cd battery pack at the same time;
- 1.3 Two levels current select,0.9A or 1.8A.

## 2.0 INPUT

### 2.1 Voltage

Minimum	Normal	Maximum	Unit
100	115/230	240	Vrms

### 2.2 Frequency

47Hz~63Hz

### 2.3 Current

2.0A.(MAX)

### 2.4 Inrush current

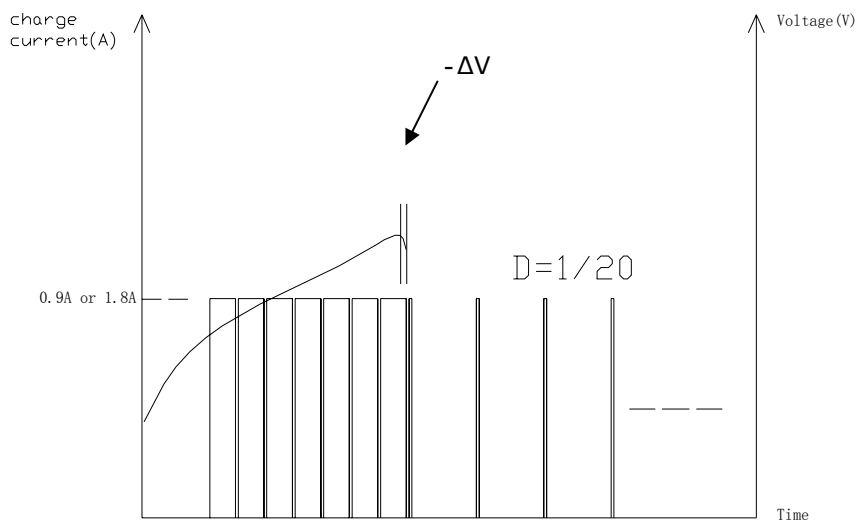
115V/40A(max.), 230V/80A(max.)  
at 25°C at cold start.

### 2.5 Power efficiency

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

## 3.0 OUTPUT

### 3.1 Charge curve



3.1.1 Each channel can charge 8~15pcs series Ni-MH/Ni-Cd battery pack at the same time,three channels can charge 24~45 series Ni-MH/Ni-Cd battery pack.

3.1.2 Its output voltage is 0V at standby.

3.1.3 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.

### 3.2 Led display(for each channel)

3.2.1 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

## 4.0 PROTECTION(for each channel)

### 4.1 Over voltage protection

Sense level	Over voltage
+24V	27Vmax.

### 4.2 Short circuit protection

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

### 4.3 Output reverse input protection

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

## 5.0 HI-POT(for each channel)

### 4.1 HI-POT

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

## 6.0 ENVIRONMENT:

### 6.1 Ambient operation temperature

0°C to +40°C

### 6.2 Ambient operation relative humidity

20% to 85%

### 6.3 Ambient storage temperature

-40°C to +70°C

### 6.4 Ambient storage relative humidity

10% to 95%

## **7.0 VIBRATION TEST**

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

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

## **8.0 MTBF**

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

## **9.0 Dimension**

**Outline dimension : 225.0L X 145.0W X 45.0(H) mm MAX;**