

Specification Approval Sheet

| Name: Tenergy 12V 300mA Charger w/ Standard Tamiya Conn | ector |
|---|-------|
|---|-------|

Model: **01009**

SPECS: for 6.0V-9.6V NiMH & NiCd Batteries

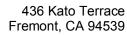
| Approved By | Спескир | Make | |
|--------------------------|---------------|------|--|
| | | | |
| | | | |
| | Signature | Date | |
| Overtown on | | | |
| Customer Confirmation | Company Name: | | |
| | Stamp: | | |
| | | | |
| | | | |

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E.C List

| REV. Description of Change | | Date | ECN No. | | |
|----------------------------|--------------------|--------------------|---------|----------|--|
| IXEV. | Before | After | Date | LOIVING. | |
| Α | Original Release | | | | |
| В | No reverse-current | Added reverse- | 8.30 | | |
| | protection | current protection | | | |
| С | | | | | |
| D | | | | | |
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1. SCOPE:

This specification defines the input, output, performance characteristics, environment, noise and safety requirements

2. INPUT CHARACTERISTICS:

2.1 The range of input voltage is from 100Vac to 240Vac single phase.

| | Minimum | Normal | Maximum |
|-----------------|---------|---------------|---------|
| Input Voltage | 100Vac | 100Vac~240Vac | 240Vac |
| Input Frequency | 47Hz | 60Hz/50Hz | 63Hz |

- 2.2 Input Current: The maximum input current shall be less than 0.5A at 100~240Vac input)
- 2.3 Maximum Energy Consumption in NO-Load The input power shall be less than 1W at 100~240Vac input.

3. OUTPUT CHARACTERISTICS:

3.1 Rated Current CV mode:

| Rating Output Voltage | No load Voltage Range | Load Output Voltage Range |
|---------------------------|---------------------------------|---------------------------|
| 12V | 11.6V~11.8V | 3.6V∼7.2V |
| Output Invariable Current | Output Invariable Current Range | Turn lamp current |
| 300m | 300mA~400mA | 60∼120mA |

3.2 Line/ Load Regulation

| Output | Load Condition | | Line Regulation | Load Regulation | Remark |
|--------|----------------|-----------|-----------------|-----------------|--------|
| Rate | Min. Load | Max. Load | | | |
| +12V | 0.0A | 300mA | ±3% | ±5% | |

3.3 Ripple And Noise:

Output ripple voltage is 300mv p-p measured methods: Performed by 20MHz bandwidth in oscilloscope. Applied 0.1uF ceramic capacitor and 10uF electrolytic capacitor across output connector terminals Measured at the end of DC cable.

3.4 Turn On Delay Time:

3 second Max. At 115Vac input and output Max. Load.

3.5 Rise Time:

40mS Max. At 115Vac input and output Max. Load.



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3.6 Hold Up Time:

5mS Min. At 115Vac input and output Max. Load.

3.7 Efficiency:

65%Min.At 100Vac input and output Max. Load.

69%Min.At 240Vac input and output Max. Load.

3.8 ultimate output: 3.6W

3.9 Overshoot:

15%Max.When power supply at turn on or turn off.

4. PROTECTION REQUIREMENT:

4.1 Short Circuit Protection:

The power supply will be auto recovered when short circuit faults remove.

4.2 Over current Protection:

The power supply will be auto recovered when over current faults remove.

5. ENVIRONMENTAL REQUIREMET:

5.1 Operating Temperature:

0°C to 40°C Full load Normal operation

- 5.2 Storage Temperature:-20°C to 85°C, With package.
- 5.3 Relative Humidity:

 $5\%(0^{\circ})\sim 90\%(40^{\circ})$ RH,72Hrs,Full load Normal operating.

5.4 Altitude:

Operating: ≤5000 meters

Storage: ≤5000meters

5.5 Vibration:

1) Operating: IEC 721-3-3 3M3

 $5\sim9$ Hz,A=1.5mm ($9\sim200$ Hz,Acceleration 5m/s²)

2) Transportation: IEC 721-3-2 2M2

5-9Hz, A=3.5mm

 $9\sim$ 200Hz, Acceleration=5m/S²

200~500HZ, Acceleration=15m/S²

3) Axes, 10 cycles per axis

No permanent damage may occur during testing.

The product has to restores its original situation after power off/on.



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5.6 Dropping (Packed):

1 corner,3 edges, and 6 surfaces

Height:76cm

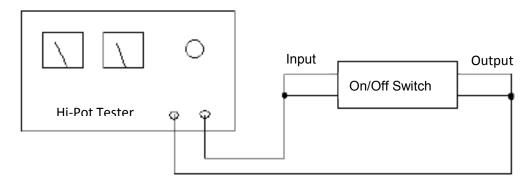
6. SAFETY AND EMC REQUIREMENT:

6.1 safety: CE UL compliant6.2 DIELECTRIC STRENGTH:

Primary to secondary:

Table 3: Hi-pot test

| Item | Specification | | Remark |
|----------------------|---------------|------------|-----------|
| Primary to Secondary | 1500Vac | <5mA / 60s | No arcing |
| Primary to P.G | N/A | N/A | No broken |



6.3 Insulation Resistance

Primary to Secondary: 50 Meg. Ohms min. 500VDC

6.4 Leakage Current

<1mA max @ 240Vac/50HZ

7. MECHANICAL REQUIREMENT:

7.1 Enclosure:

Material requirements: ABS+PC

The power supply size: L78*W48*H30mm

(Product Image As the right)

7.2 Input Connector: N/A

7.3 Output lines:





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DC: AWM 24AWG*2C,VW-1,80°C,FT1,300V

8. Label:

black text on white label

Unit: mm; Tolerance: ±0.1mm

(Label Size: 20 x 20mm)

9. Package

1. PE bag + white box + Carton

2. Qty per Carton: 150PCS

3. Carton Size: 460*390*250mm

TENERGY

6.0V-9.6V Ni-MH Charge

Item No: 01009

Input:AC100V~240V 50/60Hz 450mA

Output: 12V=300mA









CAUTION:INDOOR USE ONLY.
MADE IN CHINA