

## Electrical Specification

This is the specification of Model B120W0500U Switching Mode Power Supply design and manufacture by Billionet Limited located in China.

The specification is intended to describe as detailed as possible the functions and performance of the subject Switching Mode Power Supply or Battery Charger.

Any comment or additional requirements to this specification from our value client will be highly appreciated treated as a new target for us to approach.

● **Input Electrical Requirements**

1. Normal Input Voltage : 100-240Vac
2. Input Voltage Range : 90 – 264Vac
3. Input Frequency : 50/60Hz
4. AC Input Current : 0.6A at Full Load and any Input Voltage

● **Output Electrical Requirements**

1. Normal Output Voltage :  $\pm 12$ Vdc
2. Maximum Output Current : 500mA
3. Line Regulation :  $\pm 2\%$  Maximum
4. Load Regulation :  $\pm 5\%$  Maximum
5. Ripple and Noise Test Condition :  $< 100$  mVp-p
6. Efficiency :  $> 86\%$
7. Output Short Circuit Protection: Can be shorted without damage and auto recovery.
8. Over Current Protection : Over Current limit  $\leq 1.7$ A (Max) in CC Mode

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Issue Department Signature			Client Signature

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● **Environment Requirement**

The power supply will be compliant with each item in this specification for the following environment

1. Operating temperature : 0 ~ +40°C
2. Storage Temperature : -10 ~ +70°C
3. Operating Humidity : 10 ~ 90 %RH (Non-condensing)
4. Storage Humidity : 5 ~ 90 %RH (Non-condensing)

● **Reliability**

1. Hi-Pot Testing Voltage : I/P to O/P : 3.0 (60Sec.) KVac
2. Safety Standard : UL60950
3. EMI Standard : EN55022B
4. DIELECTRIC STRENGTH Hi-Pot:  
     Primary to secondary:3000Vac10mA/3S for type test.
5. Insulation resistance:  
     Primary to secondary:10MΩ min at 500V DC.

● **Mechanical Characteristics**

1. Case : walling mounting type
2. Case Size : (L)86\*(W)48\*(H)30mm
3. AC Connector : US Plug
4. Output Cable : 1.2m(white)&1.2m(black) 2468 24#
5. DC Connector: 5.5\*2.1\*10 mm  
     1.2m in white color, +12V DC 5.5\*2.1\*10mm; inter “ +” , outer “ -”  
     1.2m in black color, -12V, DC 5.5\*2.1\*10mm; inter “-”, outer “ +”

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