

# SPECIFICATION

## High Quality Power Supply Switching U-Channel

**Universal AC Input  
80W 12.0VDC 7.0A Output**

**P/N: U1080P-12**

\*\*\* Specification Approval \*\*\*

This specification (total 4 pages including cover page) in its entirety is approved by:

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Company Name

Print Name

Signature

Date

Specification subject to change without prior notice.



3261 Keller St.  
Santa Clara, CA 95054  
Tel: 408-980-9813  
Fax: 408-980-8626  
Email: [infor@topmicro.com](mailto:infor@topmicro.com)  
Web: [www.topmicro.com](http://www.topmicro.com)

## 1. Input Characteristics

- 1.1 Input Voltage Range ----- 90Vac To 264Vac, Universal Input.
- 1.2 Input Frequency Range ----- 47Hz To 63Hz.
- 1.3 Input Ac Current ( Max ) ----- 3A Max. @115Vac, 1.5A Max. @230Vac Full Load.
- 1.4 Inrush Current ----- At 132Vac / 264Vac, Full Load Condition, No Damage Occur. Input Fuse Shall Not Blow.
- 1.5 Efficiency ----- 80% Min, At Typical Line Input Full Load.
- 1.6 Input Leakage Current ----- Leakage Current From Line to Ground Will Be Less 3.5mA rms. Measurement Will Be Made At 240Vac/60Hz.

## 2. Output Characteristics

### 2.1 Static Output Characteristics.

Output Voltage	Load Range		Surge 10 Sec.	Regulation		Ripple Max mV P-P	Ripple & Noise Max. mV P-P
	Min.	Max.		Min.	Max.		
1. +12.0 V	0.2 A	7.0A		- 5 %	+ 5 %	100 mV	150 mV

Note:

- Noise Test ----- Noise Bandwidth Is From Dc To 20MHz.
- Ripple Frequencies Greater Than 1 MHz Shall Be Attenuated By the Measurement System.
- Add 0.1uF / 10uF Capacitor At Output Connector Terminals For Ripple & Noise Measurements.
- Total Power Can Not Exceed 80W.

### 2.2 Dynamic Output Characteristics:

- 2.2.1 Rise Time ----- 100 ms Max. At Nominal Line Full Load.
- 2.2.2 Turn-on Delay Time ----- 600mS Max. At Nominal Line Full Load.
- 2.2.3 Hold-up Time ----- 10 ms Min. For + 5V Output At Nominal Line Full Load.
- 2.2.4 Transient Overshoot ----- 10% Max. Of Delay State After Load Change Of 25% Within The Range Of 50% To 100% Of Full Load.
- 2.2.5 Temperature Coefficient ----- 0.03% Per °C Max.

### 3. Protections

- 3.1 Over Voltage Protection --- Standard On. +12.0V output set at 13.5Vdc – 14.5Vdc
- 3.2 Short Circuit Protection --- A Short Circuit Placed Between Dc Return And Output Shall Cause No Damage And The Power Supply Shall Shutdown.
- 3.3 Over Power Protection --- The Power Supply Can Use Electronic Circuit To Limit The Output. Power Against Excessing +150% Of Full Load. Or Protected against Excessive Power Delivery Due To Short Circuit Of Any Output Or Over Total Power.
- 3.4 No load Operation --- No Parts Damaged On Power Supply.

### 4. Dielectric Withstand Voltage

- 4.1 Primary to Secondary --- 1500Vac For 1 Minute. Or 1800Vac For 1 Sec.
- 4.2 Primary to Safety Ground --- 1500Vac For 1 Minute. Or 1800Vac For 1 Sec.
- 4.3 Insulation Resistance --- Primary To Safety Ground - 500Vdc, 50M ohms Min.

### 5. Conducted EMI Internal Filter Can Meet.

- 5.1 FCC Requirement --- Part15, SUB-Part J, Computing Devices “ Class B “ Limits.
- 5.2 CISPR Requirement --- Class “ B “ Requirements Of CISPR 22.
- 5.3 VCCI Class “ 2 “.

### 6. Product Safety This Power Supply Is Designed Can Meet The Following Spec.

- 6.1 UL/CUL ----- UL 60950-1
- 6.2 TUV ----- EN 60950-1

### 7.Environment

- 7.1 Operation Temperature ----- Air Temperature 0 °C To 40 °C.
- 7.2 Operation Relative Humidity ----- 20% To 90%.
- 7.3 Storage Temperature ----- Air Temperature -20 °C To 60 °C.
- 7.4 Storage Relative Humidity ----- 5% To 95%.
- 7.5 Altitude ----- Operate Properly At Any Altitude Between 0 To 100,000 Feet. Storage 40,000 Feet.

7.6 Vibration ----- 0.38mm. 5-55-5Hz, 1 Minutes Per Cycle;  
30 Minutes For Each Axis ( X,Y,Z ).

### 8. Burn-In

8.1 Burn-In ----- At 40 °C, Max. Load, 4 Hours.

### 9. Dimension

9.1 W x D x H -----132x78x38 ( mm )

