

SPECIFICATION

High Quality Slim Power Adapter

Universal AC Input
80W 19VDC 4.2A Output



P/N: A190042LV6

****Specification Approval****

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

Company Name

Print Name

Signature

Date



3261 Keller St.
Santa Clara CA 95054
Tel: 1-408-980-9813
Fax: 1-408-980-8626
Email: infor@topmicro.com
Web: www.topmicro.com

1. Electrical

1.1 Input Voltage

110-240Vac nominal

1.2 Input Frequency

47-63HZ

1.3 Input Current

1.8A max. at 100Vac input & full load DC output

1.4 Inrush Current

50/100A max. cold-start at 25°C, 115/230Vac input & full load DC output

1.5 Hold-up Time

4mSec. min. at 115Vac input and full load DC output

1.6 Input Wattage

Less than 0.75W at 240Vac input & full load DC output

1.7 Efficiency

87% max. at 115/230Vac input & full load DC output

1.8 Output Voltage and Current

DC Output 19Vdc (+/-5%) 4.2A 80W Max.

DC Plug: 5.5*2.5mm

1.9 Rise Time

Rise time shall be less than 50mSec.

It should be measured from 10% to 90% of the output voltage.

1.10 Ripple and Noise

Less than 200mVp-p. Ripple and noise measurements shall be made under all specified load conditions through a single pole low pass filter with 20MHz cut off frequency. Outputs shall be bypassed at the connector with a 0.1uF ceramic disk capacitor and a 10uF electrolytic capacitor to simulate system loading.

1.11 Safety Test

Leakage current less than 0.25mA at 254Vac, 50Hz

Hi-Pot test: 3000Vac, 10mA, 3 Sec. between Primary to Secondary ground

Insulation: at 500Vdc, 1 Sec. between Primary to Secondary circuit

IR shall \geq 20M Ω

1.12 Protection

SCP: Short circuit protection with auto recovery function

OVP: Over voltage protection with shut down & latch off function

Tripped voltage will be less than 24Vdc.

OCP: Over current protection with auto recovery function

Current limit: 8.5A max.

OTP: Over Temperature Protection with auto recovery function

2. Environment

2.1 Temperature

Operation: 0 to 40 °C

Storage: -20 to 70 °C

2.2 Humidity

Operation: 20 to 80%

Storage: 10 to 90%

2.3 Altitude

From sea level to 2000m (operation)

3. EMC

3.1 EMS

Test Item	Test Specification	IEC Standards
ESD	Contact +/-8KV	61000-4-2
ESD	Air +/-15KV	61000-4-2
RS	FR: 26MHz-1.0GHz Field Strength: 3V/M	61000-4-3
EFT	+/-2KV on AC power line	61000-4-4
SURGE	+/-1KV (DM) & +/-2KV(CM)	61000-4-5
CS	3V/M	61000-4-6
DIPS	0% 250CY,40% 5CY,70%5CY	61000-4-11

3.2 EMI

Standards	Specification
FCC	Part 15,class B
VCCI	Class B
CISPR	Part 22,class B

4. Reliability

4.1 Burn-in

100% burn-in with 80%~100% load at 35~45°C room temperature

4.2 Vibration Test

Non operation vibration with shipping container shall be 2G'S

Peak/7-50Hz, 4G'S/ 50-500Hz. After test no abnormalities shall be present.

Operation vibration shall be 0.5G'S peak/10-60Hz, 3 axes. After test no abnormalities shall be present.

4.3 Drop Test

Test height is 100cm. After drop test no abnormalities shall be present.

6. Mechanical

