

## ELECTRICAL REQUIREMENTS

**1. SCOPE:** This specifications is suitable to the AC adaptor of model GF-4016L designed to EI-57 wall mount

**2. APPLICABLE STANDARDS:** UL1310, CSA22.2

**3. AGENCY SAFETY:** UL, CSA

**4. SURFACE, STRUCTURE:**

4-1 Surface: Damage, rusting, foam, cracks are not permitted.

4-2 Appearance: Dimensions and express: As attached drawing.

**5. ELECTRICAL CHARACTERISTICS:**

5-1 Primary rated voltage & line frequency: 120 VAC 60 Hz 50 W

5-2 Secondary output ratings:

Input voltage	Output voltage	Rated current	No load voltage
120 VAC 60 Hz	AC 16.5V +/- 5%	2400 mA	AC 19 V Max.

5-3 Exciting current (Io): 110 mA Max. at input 120 VAC 60 Hz without secondary load.

5-4 Primary rated current (Ip): 430 mA Max. at input 120 VAC 60 Hz with output current 2400 mA.

5-5 Ripple voltage: --- mV (RMS) Max. at input --- VAC --- Hz with output current --- mA.

5-6 Dielectric strength: The specified voltage shall be applied to each item as following without breakdown.

(1) Primary to Secondary & Core: 1.24 KV 60 Hz for one minute.

(2) Secondary to Core: 1.24 KV 60 Hz for one minute. Cut-off current: 1 mA Max.

At an alternative potentials, increasing 20% of voltage may be applied for one second in mass production.

5-7 Insulation test: 500 VDC 100 MΩ Min. between input plug and output plug and case.

5-8 Core loss: Input 120 VAC 60 Hz without secondary load, watts loss shall be under 5.0 W.

5-9 Temperature rise: Input 120 VAC 60 Hz with secondary load 2400 mA, shall not exceed 40 deg on case surface (By thermometer). 75 deg for primary winding (By resistance method). At ambient temp. 25°C.

**6. MECHANICAL CHARACTERISTICS:**

6-1 Strain relief test: A pull forces of --- lb to output cord for one minute, results shall be without disconnection of cord or loose of bush is found.

6-2 AC blade pull test: Pull AC blades by 1.5 kg for one minute without pull out from the case.

6-3 Cord bending test: The unit loaded a weight and swung the case to cord from left to right following specifications as below, the cord shall not be disconnected

Weight	Angle (θ)	Speed	Cycle required
--- g	--- degrees	--- times / minute	--- cycles Min.

6-4 Drop test: Products shall be dropped from a height of 914 mm onto a wood surface, it's thickness is 6.3 cm, free fall test, 3 times, after shall functions normally and the case shall not open in safety concern part.

**7. TEMPERATURE RANGE:**

7-1 Normal operating temperature at: -10°C ----- +40°C

7-2 Storage temperature at: -20°C ----- +70°C

7-3 Normal operating humidity at: 30% ----- 85% R.H.

**8. NET WEIGHT (APPROX.):** 723 g.