

160 Watt

eAQF160 Series



- ◆ Open Frame 100W Power Supply in 4.0" x 2.0" Size
- ◆ Active PFC Function, >0.95 (230Vac), >0.98 (115Vac)
- ◆ 100W Full Load at 40°C Under Free Air Convection
- ◆ 160W with 25CFM FAN
- ◆ <0.5W No Load Input Power (except AQF 160-48S)
- ◆ 12V (Aux) / 0.3A
- ◆ EN55022 Class B Meets
- ◆ Isolation Class I
- ◆ Continuous Short Circuit Protection with Hiccup Mode and Auto Recover
- ◆ CE, UL Approvals
- ◆ 3-Year Warranty

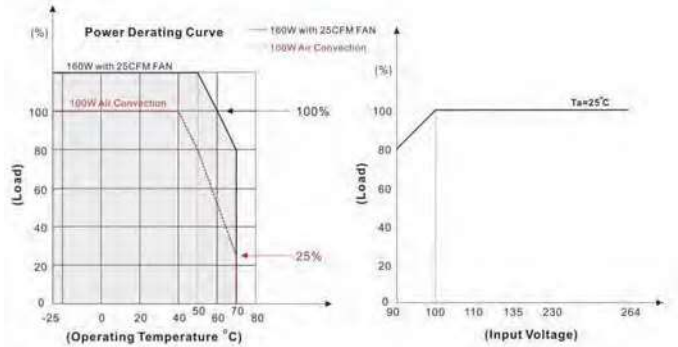
| Input Specifications                |  |
|-------------------------------------|--|
| Voltage Range                       | 90 - 264VAC or 120 - 370 VDC                                   |
| Frequency                           | 47~63 Hz   |
| Output Specifications               |  |
| Output Power                        | Free air Convection: 100 Watt (max.)<br>25CFM: 160 Watt (max.) |
| Voltage Accuracy                    | ±2% (Full Load and Nominal Vin)                                |
| Line Regulation                     | ± 1 % (LL to HL at Full Load) (typ.)                           |
| Load Regulation                     | ± 1 % (10% to 100% at Full Load) (typ.)                        |
| Ripple & Noise<br>(20MHz bandwidth) | 12S: 130mV (Vp-p) (max.)<br>others: 1% Vout (Vp-p) (max.)      |
| Temperature Coefficient             | ±0.03% / °C (0-70 °C) (max.)<br>±0.06% / °C (25-0 °C) (max.)   |
| Short Circuit Protection            | Auto recovery, Hiccup mode                                     |
| General Specifications              |  |
| Efficiency (see table list)         | 90% to 91.5% (typ.)  |
| Isolation Voltage                   | 3000 VAC or 4242 VDC (min.)                                    |
| Isolation Resistance                | 10 <sup>8</sup> Ω (Input to Output) (min.)                     |
| Operating Temperature               | -25 °C to +70°C (with Derating)                                |
| Storage Temperature                 | -25°C to +80°C   |
| Humidity                            | 95% RH (max.)  |
| Cooling                             | Free-air Convection  |
| Vibration                           | 10-500Hz, 2G 10min./1cycle, 60min.<br>Each along X, Y, Z axes. |
| Physical Specifications             |  |
| Dimension                           | 103.9 x 54.1 x 25.0 mm   |
| (Tolerance ±0.5 mm)                 | 4.1 x 2.13 x 0.98 inches                                       |
| Weight                              | 220 g  |

Model

► eAQF160 Single Output

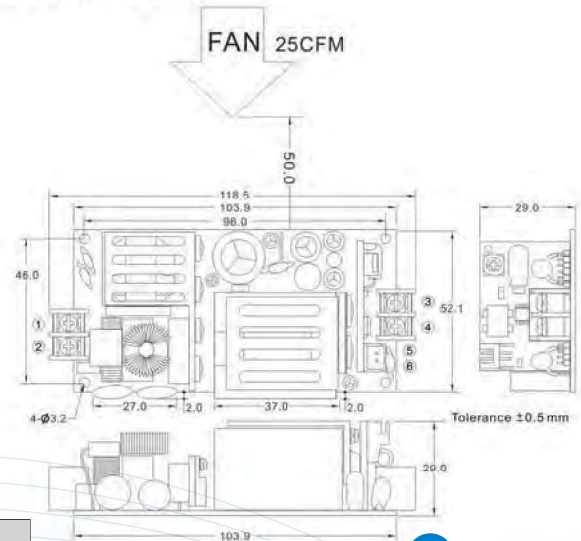
| Model & Ordering No | Input Voltage (V.AC) | Output Voltage (V.DC) | Output Current (mA) max. |            | Ef (%) |
|---------------------|----------------------|-----------------------|--------------------------|------------|--------|
|                     |                      |                       | Convection               | 25 CFM FAN |        |
| eAQF160-12S         | 90~264               | 12                    | 8.4                      | 13.3       | 90     |
| eAQF160-15S         | 90~264               | 24                    | 6.7                      | 10.6       | 90     |
| eAQF160-24S         | 90~264               | 28                    | 4.2                      | 6.66       | 90     |
| eAQF160-48S         | 90~264               | 48                    | 2.1                      | 3.33       | 91.5   |

Derating

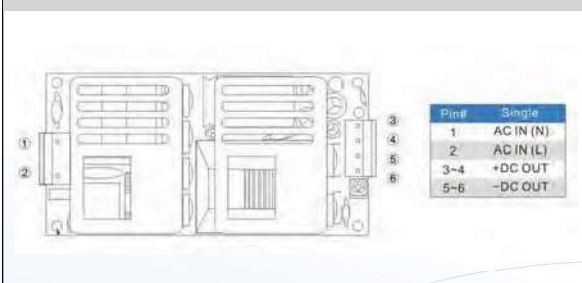


Outline Dimensions & Pin Connections (Top View)

Standard : Terminal Block



A Type: Molex Series 8673 (Alex Connector Co., Ltd)



Standard : Terminal Block

A Type : Molex Series 8673 (Alex Connector Co., Ltd)



- Pin#
- 1 AC IN (N)
  - 2 AC IN (L)
  - 3 +DC OUT
  - 4 -DC OUT
  - 5 -AUXOUT
  - 6 +AUXOUT