

100 Watt

eAQC100 Series



- ◆ Power Module for PCB Mountable
- ◆ High Efficiency up to 93%
- ◆ Active PFC Function, >0.95 (230Vac), >0.99 (115Vac)
- ◆ Low Leakage Current, <250uA
- ◆ Remote ON/OFF Control
- ◆ Continuous Short Circuit Protection with Hiccup Mode and Auto Recover
- ◆ N55022 Class B Meets
- ◆ Class I and Class 11 Construction
- ◆ CE, CB, UL Approvals
- ◆ 3-Year Warranty

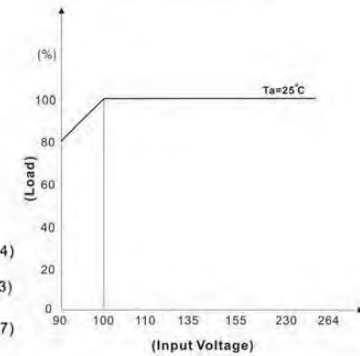
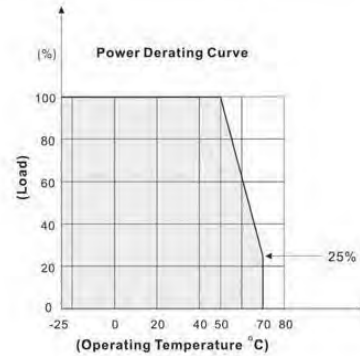
Input Specifications	
Voltage Range	90 ~ 264 VAC or 100 ~375 VDC
Frequency	47~63 Hz
Output Specifications	
Output Power	100 Watt (max.)
Voltage Accuracy	±2% (Full Load and Nominal Vin)
Minimum Load	3% (at Full Load)
Line Regulation	±1% (LL to HL at Full Load) (typ.)
Load Regulation	± 1 % (5% to 100% at Full Load) (typ.)
Ripple & Noise (20MHz bandwidth)	12S: 120mV / 15S: 150mV (Vp-p) (max.) 24S: 200mV / 48S: 240mV (Vp-p) (max.)
Temperature Coefficient	±0.02% °C (max.)
Short Circuit Protection	Hiccup mode, indefinite (Automatic recovery)
General Specifications	
Efficiency (see table list)	90% to 93% (typ.)
Isolation Voltage	3000 VAC (min.)
Isolation Resistance	10 ⁸ Ω (Input to Output) (min.)
Operating Temperature	-25 °C to + 70°C (with Derating)
Storage Temperature	-40 °C to +85°C
Humidity	95% RH (max.)
Cooling	Free-air Convection
Physical Specifications	
Dimension (Tolerance ±0.5 mm)	109.0 x 58.5 x 30.0 mm 4.3 x 2.3 x 1.18 inches
Weight	362 g
Case Material	Plastic resin (flammability to UL 94V-0)

Model

eAQC100 Single Output

Model & Ordering No	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (mA) max.	Eff (%)
eAQC100-12S	90~264	12	7080	90
eAQC100-15S	90~264	15	5660	90
eAQC100-24S	90~264	24	4200	92
eAQC100-48S	90~264	48	2100	93

Derating



Outline Dimensions & Pin Connections

