

5 Watt

eAHC Series

- ◆ Power Module for PCB Mountable
- ◆ Universal Input: 90-264 VAC, 47-63 Hz
- ◆ Regulated Output and Ripple and Noise
- ◆ -40°C Starting Optional (AHC-E1)
- ◆ Small Size: 2.0 x 1.0 x 0.597 inches
- ◆ Isolation Class II
- ◆ CE, CB, UL Approvals
- ◆ 3-Year Warranty



Input Specifications	eAHC	eAHCN
Voltage Range	90~264 VAC or 120~370 VDC	
Frequency	47~440 Hz	
Output Specifications	eAHC	eAHCN
Output Power	5.5 Watt (max.)	
Voltage Accuracy	±2% (Full Load and Nominal Vin)	
Minimum Load	0% (at Full Load)	
Line Regulation	±3% (LL to HL at Full Load (typ.))	
Load Regulation	±5% (%5 to 100% at Full Load) (typ.)	
Ripple (Vp-p) (Max.) (20MHz bandwidth)	<2% Vout +40mV	3.3S: .5S: <80mV others:<120mV
Noise (Vp-p) (max.) (20MHz bandwidth)	<0.5% Vout +50mV	3.3S: .5S: <80mV others:<120mV
Temperature Coefficient	±0.02% / °C (max.)	±0.05% / °C (max.)
Short Circuit Protection	Hiccup mode, indefinite (Automatic recovery)	
General Specifications	eAHC	eAHCN
Efficiency (see table list)	68% to 77% (typ.)	67% to 77% (typ.)
Isolation Voltage	3000 VAC (min.)	
Isolation Resistance	10 ⁹ Ω (Input to Output)	
Operating Temperature	-25°C to +70°C(AHC) -40°C to +70°C(AHC) (with Derating)	-40°C to +70°C (with Derating)
Storage Temperature	40% + 85 °C	
Humidity	95% RH (max.)	
Cooling	Free-air Convection	
Physical Specifications	eAHC	eAHCN
Dimension (Tolerance ±0.5 mm)	51.2 x 25.8 x 15.4 mm	
Weight	2.0 x 1.0 x 0.6 inches	
Case Material	30 g	
	Plastic resin (flammability to UL 94V-0)	

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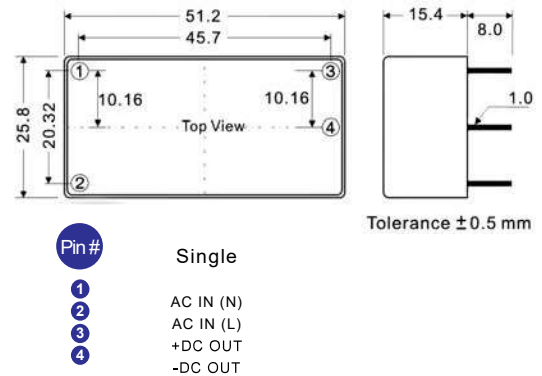
eAHCN Series

- ◆ Power Module for PCB Mountable
- ◆ Universal Input: 90-264 VAC, 47-63 Hz
- ◆ Regulated Output and Ripple and Noise
- ◆ <0.2W no Load Input Power
- ◆ Small Size: 2.0 x 1.0 x 0.597 inches
- ◆ Isolation Class II
- ◆ CE, UL Approvals
- ◆ 3-Year Warranty



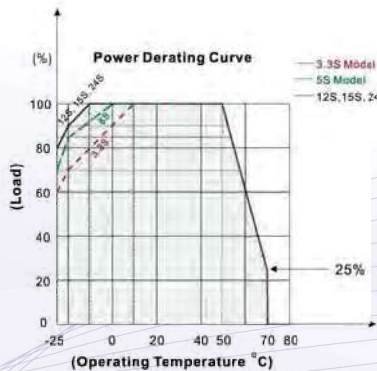
Model				
▶ eAHC Single Output				
Model & Ordering No	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (m.A) max.	Eff (%)
eAHC-3.3S	90~264	3.3	2000	68
eAHC-5S	90~264	5	1000	71
eAHC-12S	90~264	12	420	75
eAHC-15S	90~264	15	333	75
eAHC-24S	90~264	24	230	77
▶ eAHCN Single Output				
Model & Ordering No	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (m.A) max.	Eff (%)
eAHCN-3.3S	90~264	3.3	2000	68
eAHCN-5S	90~264	5	1000	71
eAHCN-12S	90~264	12	420	75
eAHCN-15S	90~264	15	333	75
eAHCN-24S	90~264	24	230	77

Outline Dimensions & Pin Connections

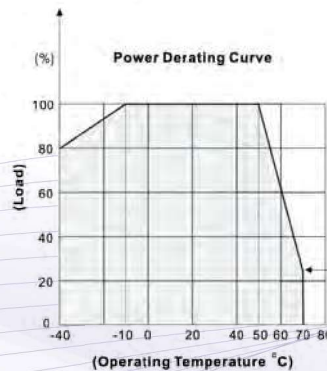


Derating

eAHC Series



eAHCN Series



eAHC Series
eAHCN Series

