

8 Watt

eALC Series

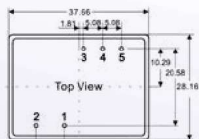
- ◆ Power Module for PCB Mountable
- ◆ Universal Input: 90-305 VAC, 47-440 Hz
- ◆ Maximum No-Load Walls < 0.3W
- ◆ Single and Dual Output
- ◆ Low Ripple and Noise
- ◆ Isolation Class II
- ◆ CE, UL Approvals
- ◆ 3-Year Warranty



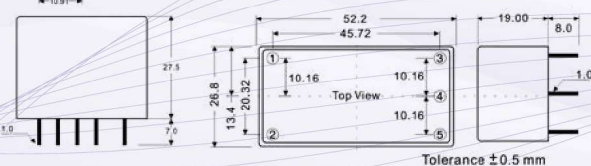
Input Specifications	eALC	eAHC08
Voltage Range	90~264 VAC or 120~370 VDC	
Frequency	47~440 Hz	
Output Specifications	eALC	eAHC08
Output Power	8 Watt (max.)	
Voltage Accuracy (Full Load and Nominal Vin)	Single: ±2% 5S3.35: Vo:±2% Vr:±15% others: Vo:±2% Vr±10%	Single: ±2% 5S3.35: Vo: ±2% Vr:±15% others: Vo:±2% Vr±5%
Minimum Load	Single: 0% Dual: 25% (at Full Load)	
Line Regulation (LL to ILL at Full Load)	Single: ±0.2% (typ.) Dual: Vo:±0~2% Vr: ±3% (typ.)	3.3S~9S:±1% (typ.) 12&-24S:±0.5% (typ.)
Load Regulation ALC Single:0% to 100% at Full Load ALC Dual: 10% to 100% at Full Load (AHC08: balanced)	3.3S: ±3% (typ.) 5S: ±2% (typ.) others: ±0.5% (typ.) Dual: Vo:±0.5% Vr ±5% (typ.)	3.3S~9S:±1% (typ.) 12&-24S:±0.5% (typ.) Dual: Vo:±0.5% Vr: ±5% (typ.)
Ripple (20MHZ bandwidth)	24S: <200 mV others: <150mV	(Vp-p) (max.) (Vp-p) (max.)
Noise (20MHz bandwidth)	24S: <200mV others:	(Vp-p) (max.)
Temperature Coefficient	±0.02% °C (max.)	
Short Circuit Protection	Hiccup mode, indefinite (Automatic recovery)	
General Specifications	eALC	eAHC08
Efficiency (see table list)	69% to 81%	(typ.)
Isolation Voltage	3000 VAC (mm.)	
Isolation Resistance	10~ C) (Input to Output) (mm.)	
Operating Temperature	-40°C to +7°C (with Derating)	
Storage Temperature	-40°C to +85°C	
Humidity	95% RH (max.)	
Cooling	Free-air Convection	
Physical Specifications	eALC	eAHC08
Dimension (Tolerance ±0.5 mm)	37.66x28.16x27.5mm 1.48x1.1x1.08 inches	52.5x26.8x19.0mm 2.05x1.05x0.75 inches
Weight	45g	35g
Case Material	Plastic resin (flammability to UL 94V-0)	

Derating

eALC Series



eAHC08 Series



8 Watt

eAHC08 Series

- ◆ Power Module for PCB Mountable
- ◆ Universal Input: 90-305 VAC, 47-440 Hz
- ◆ Regulated Output and Low Ripple and Noise
- ◆ Low Standby< 0.3W
- ◆ Small Size as AHC 5Watt with 8Watt Higher Power
- ◆ Isolation Class II
- ◆ Single and Dual Output
- ◆ CE, UL Approvals
- ◆ 3-Year Warranty



Model

► eALC Single Output

Model & Ordering No	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (m.A) max.	Eff (%)
eALC-3.3S	90~305	3.3	2000	69
eALC-5S	90~305	5	1600	75
eALC-8S	90~305	8	1000	78
eALC-9S	90~305	9	888	79
eALC-12S	90~305	12	666	79
eALC-14S	90~305	14	571	80
eALC-15S	90~305	15	533	80
eALC-24S	90~305	24	335	81

► eALC Dual Output

Model & Ordering No	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (m.A) max.	Eff (%)
eALC-3.3S	90~305	Vo:5 Vr:3.3	1600 / 310	73
eALC-8S5S	90~305	Vo:8 Vr:5	1000 / 1100	78
eALC-12S5S	90~305	Vo:12 Vr:5	666 / 100	79

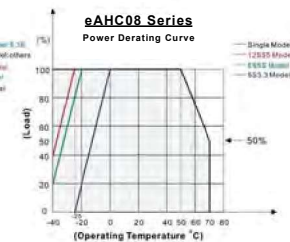
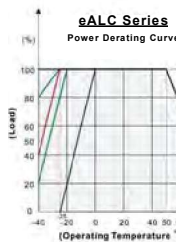
► eAHC08 Single Output

Model & Ordering No	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (m.A) max.	Eff (%)
eAHC-3.3S	90~305	3.3	2000	69
eAHC-5S	90~305	5	1600	75
eAHC-8S	90~305	8	1000	78
eAHC-9S	90~305	9	888	79
eAHC-12S	90~305	12	666	79
eAHC-14S	90~305	14	571	80
eAHC-15S	90~305	15	533	80
eAHC-24S	90~305	24	335	81

► eAHC08 Dual Output

Model & Ordering No	Input Voltage (V.AC)	Output Voltage (V.DC)	Output Current (m.A) max.	Eff (%)
eAHC08-5S3.3S	90~305	Vo:5 Vr:3.3	1600 / 310	71
eAHC08-8S5S	90~305	Vo:8 Vr:5	1000 / 1100	77
eAHC08-12S5S	90~305	Vo:12 Vr:5	666 / 100	78
eAHC08-12S7.5S	90~305	Vo:12 Vr:7.5	560 / 250	78

Outline Dimensions & Pin Connections



Pin #

Pin #	eALC Single	eALC Dual	eAHC08 Single	eAHC08 Dual
1	AC IN (N)	AC IN (N)	AC IN (N)	AC IN (N)
2	AC IN (L)	AC IN (L)	AC IN (L)	AC IN (L)
3	NC	+Vr	- DC OUT	- DC OUT
4	+Vo	+Vo	+DC OUT	+DC OUT
5	+Vo	GND	NO PIN	+Vr
	GND			