



- Compatible with leading edge and trailing edge TRIAC dimmers
- Wide-range compatibility, flicker-free dimming
- Short circuit and over current protection
- Air-cooled for long life operation
- Dry location (IP40)

Item #		AL-98-03-12020	AL-98-03-24020
Output	DC Voltage	12V DC	24V DC
	Voltage Accuracy	±5%	±5%
	Rated current	1.66A	0.83A
	Rated power	20W	20W
	Minimum Load	0% (on/off switch) / 60% (w/dimmer)	
Input	Voltage Range	120V AC	
	Frequency Range	47~63HZ	
	Power Factor (Avg.)	PF≥0.92/110V ; PF≥0.94/220V ; PF≥0.95/250V	
	Full Load Efficiency (Avg.)	>86% (12V DC)	>85% (24V DC)
	AC Current (Avg.)	0.14A/110V AC — 0.12A/220V AC — 0.1A/265V AC	
	Leakage Current	<0.27mA/110V AC, <0.25mA/220V AC	
Protection	Short Circuit	Short circuit protection and autorecovery	
	Over Voltage	≤140V AC	
Environment	Working Temp. / Humidity	-40~+60°C / -40~+140°F / 20~90%RH, non-condensing	
	Storage Temp. Humidity	-40~+80°C, -40~176°F / 10~95%RH	
Safety & EMC	Safety Standards	EN-60950-1, EN-61347-1/-2/-13	
	Withstand Voltage	I/P-O/P: 3.75KV AC	
	Isolation Resistance	I/P-O/P: 100MΩ/500V DC/25°C, 77°F/70%RH	
	EMC Emission	Compliance to EN55015, EN61000-3-2 (≥50% load)	
	EMC Immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 11, EN61547, a light industry level (surge: 4KV)	
Other	Warranty	5 Year Limited	
	Dimensions (L x W x H)	5.71 x 2.17 x 0.79 in.	

1. All parameters NOT specially mentioned are measured at 110V, 230V AC input, rated load, and 25°C, 77°F of ambient temperature.
 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.