



FEATURES:

- 18-40VDC Input → 13.8VDC±3%
- Highly reliable in hot, wet & harsh conditions
- Efficiency > 90%
- Overload, short circuit & reverse input protected
- Very low noise complying with AS3548, CISPR22 class B
- Suitable for sensitive electronic loads & equipment
- Soft start extending lamp life
- Remote control , use as a reducing relay
- 5 year warranty

Suitable for radio communications, audio, lighting, computer equipment, auxiliary battery systems, refrigeration, motors and solenoids, relay etc.



SPECIFICATIONS

MODEL		R241310
INPUT	VOLTAGE RANGE	18 – 40VDC
	CONTINUOUS RATING	10A
	Steady-state Current (18V input)	83% of output current at full load
	Steady-state Current (27.6V input)	54% of output current at full load
	EFFICIENCY	> 90% at full load, 18-32V input. Typically > 93% at 24V in, full load.
OUTPUT	VOLTAGE	13.8VDC ± 3%
	RIPPLE & NOISE	<100mV RMS, <250mV P-P
	MIN LOAD (Fully Regulated)	0 A. No minimum load is required
	LOAD REGULATION	< 4% For all loads from 0 to full load
	LINE REGULATION	< 2% For all input voltages from 18-32 VDC
	STEP LOAD RESPONSE	0 to 70% step load change < 1.5V peak or dip, O/P Settling time < 2.2ms
PROTECTION	SHORT CIRCUIT	Short circuit placed on output causes no damage ⁽¹⁾
	OVER CURRENT	Quasi constant current limit ⁽²⁾
	REVERSE INPUT	Reversed Input polarity blows input fuse
ENVIRONMENT	TEMP. COEFFICIENT	< 0.1% per °C after 1 hour. Any change in output voltage due to warm-up drift & temperature is within regulation limit
	OPERATING TEMP.	0°C to 60°C. Maximum case temperature recommended 80°C.
	OPERATING HUMIDITY	10% TO 95%
	SHIPPING & STORAGE	-30°C to 85°C, Relative Humidity: 5% to 95%
	WITHSTAND VIBRATION	5.2G under operation
	WITHSTAND SHOCK	28G under operation
STANDARDS	SAFETY	IEC 950, AS 3260, UL 1950, CSA22.2 No. 950
	EMI	CISPR 22 Class B, AS 3548 Class B, FCC Class B, VDE 0871 Class B
DIMENSIONS	Metric: L x W x H (mm)	120 x 111 x 45
	Imperial: L x W x H (inches)	4.72 x 4.37 x 1.77
WEIGHT	Metric: Grams (g)	600
	Imperial: Ounces (oz)	21
OTHERS	ENCLOSURE	Sealed to > IP65
NOTE	1. Can be shorted indefinitely	
	2. Load dumping causes no damage, rated to 32V continuous, 40V surge. Over 40V blows input fuse. No damage to reducer.	