

Datasheet

RS 10W, 1 Output, Embedded Switch Mode Power Supply (SMPS), 5V, 2000mA

RS Stock 671-6691



Description

High efficiency green power modules with minimum . The features of this series are: wide input voltage, DC and AC all in one, high efficiency, high reliability, low loss, safety isolation etc. They are widely used in industrial, office, civil and medical equipments. EMC and safety standards meet international standards IEC61000, UL60950, EN60601 and IEC60950, and Multi-certificate is in processing.

PRODUCT FEATURES

1. Universal Input :85 ~ 264VAC,50/60Hz
2. AC and DC all in one (input from the same terminal)
3. Low Ripple and Noise
4. Over output voltage protection , short circuit protection and Over temperature
5. High efficiency, High power density
6. Low loss, green power
7. Multiple models available
8. Industrial, medical level specifications

INPUT SPECIFICATIONS

Input Voltage Range	85~264VAC, 120~370VDC	
Input Frequency	47~440Hz	
Input Current	110VAC 230mA, typ	230VAC 150mA, typ
Inrush Current	110VAC 10A, typ	230VAC 20A, typ
External input fuse(Recommended)	2A/250V	Slow blow

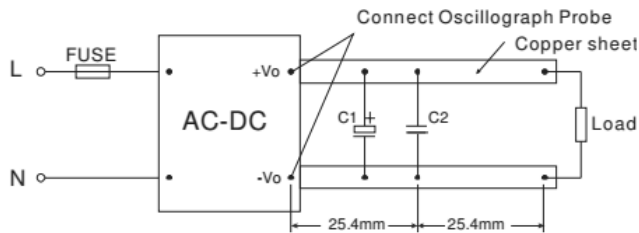
OUTPUT SPECIFICATIONS

Voltage set accuracy	±2% (3.3V: ±3%)(typ)
Input variation	±0.5% (typ)
Load variation (10% to 100%)	±1% (typ)
Ripple& noise(p-p) (20MHz Bandwidth)	50mV(typ)
Short circuit protection	Continuous, and auto resume
Over current protection	≥110% I _o

COMMON SPECIFICATIONS

Temperature ranges	Operating Power derating (above 55°C):	-25°C ~ +70°C 2%/°C
	Storage: Case temperature:	(below 0°C): -40°C ~ +105°C +95°C max
Hold-up time (Vin=230VAC)		50ms(typ)
Humidity		95%(max)
Temperature coefficient		0.02%/°C
Switching frequency		60kHz(typ)
Efficiency		78%(typ)
I/O-isolation voltage		4000VAC/1Min
Leakage current		0.1mA (typ)
EMI/RFI conducted		EN55011, level B

ANEAR MEASURE



TYPICAL APPLICATIONS

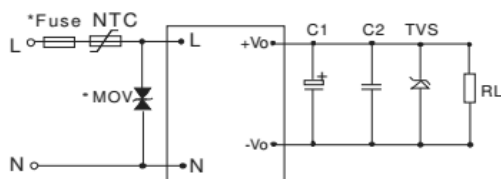


Figure 1 EMC Application Figure 1

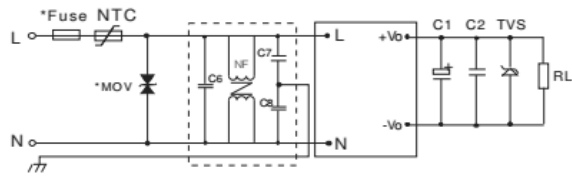


Figure 2 LD10 EMC Application Figure 2