

Inline brick power supply for single yellobrik

- Wide Operating Voltage 90 to 264 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Single Output
- Class I system

The RPS 1003 AC/DC switching mode power supply unit provides 15 watts of continuous output power. This power supply unit is meant to be used with a single yellobrik module. The power supply is UL 94V-1 min compliant. It meets FCC part-15 class B and CISPR-22 class B emission limits.



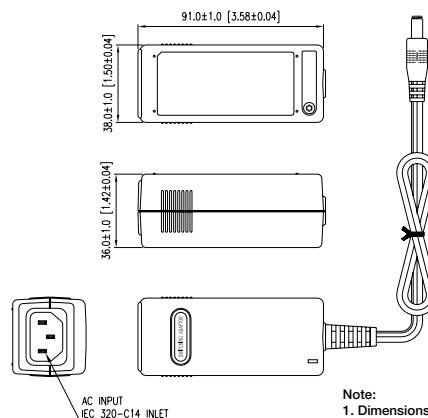
RPS 1003

Electrical Characteristics

V_{in}	Safety Approvals Input Voltage Range	100~240 VAC	
	Input Operate Voltage Range	90~264 VAC	
f_{in}	Input Frequency	47~63 Hz	
P_o	Output Power Range	15 W (max.)	
V_o	Output Voltage Range	11 ~ 13 VDC	
I_o	Output Current Range	1.15 ~ 1.36 A	
I_{il}	Input Current (Low Line)	I _o =Full load, V _{in} =100VAC	0.4 A (max.)
	Input Current (High Line)	I _o =Full load, V _{in} =240VAC	0.16 A (typ.)
I_r	Low Line Inrush Current	I _o =Full load, 25°C, Cool start, V _{in} =100VAC	35~45 A
	High Line Inrush Current	I _o =Full load, 25°C, Cool start, V _{in} =240VAC	70~90 A
Eff	Efficiency	I _o =Full Load, V _{in} =230VAC	84.5% (typ.)
REG-i	Line Regulation	I _o =Full Load	0.5~1 %
REG-o	Load Regulation	V _{in} =230VAC	3~7 %
OVP	Over Voltage Protection		Nil
OCP	Over Current Protection	Nil, But, Output protected to short circuit conditions	
T_{tr}	Time of Transient Response	I _o =Full Load to Half Load, V _{in} =110VAC	4 ms (max.)
T_h	Hold-Up Time	I _o =Full Load, V _{in} =100VAC	8 ms (min.)
T_s	Start Up Time	I _o =Full Load, V _{in} =100~240VAC	2 s (max.)
V_{p-p}	Ripple & Noise(Peak to Peak)	Full Load, V _{in} =90VAC	100mV _{p-p}
I_{lk}	Leakage Current	V _{in} =240VAC/60Hz	0.75 mA (max.)
TC	Temperature Coefficient	All output	±0.04 %/ °C
P_{no}	No-Load Power Consumption	No load, V _{in} =230VAC	0.075W (typ.)
V_{ps}	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242 VDC (min.)

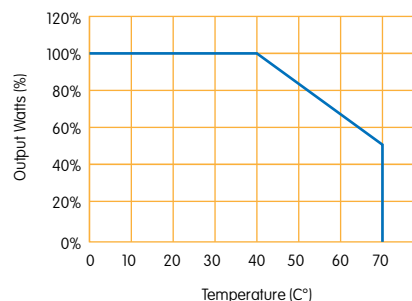
Environmental

T_o	Operating Temperature	See derating curve
T_s	Storage Temperature	-40~85°C
H_o	Operating Humidity	0~95%
H_r	Storage Humidity	0~95%
MTBF	Operating Temperature at 25 C Calculated per MIL-HDBK-217F	0.1M Hrs (min.)
P_d	Derate linearly from 100% load at 40°C to 50% load at 70°C	



Note:
1. Dimensions are shown in mm.
2. Weight: 165g approx

Derating Curve



Ordering Information

EAN / UPC	Model	Description
4250479310032	RPS 1003	In line brick power supply for single yellobrik

Rev 1.0 Specifications subject to change