



## Specifications:

### Environmental Requirements:

Operating temperature	: 0°C to 40°C
Storage temperature	: -25°C to +85°C
Operating humidity	: 30% to 95%
Storage humidity	: 30% to 98%
Operating bar	: 1bar

### Input Requirements:

Regular input voltage	: 100V AC to 240V AC
Variable input voltage range	: 90V AC to 264V AC
Rating frequency	: 50Hz to 60Hz
Frequency range	: 47Hz to 63Hz
Input current	: 0.18Arms maximum (at regular voltage and current)

### Introduction of AMP9820:

The SMPS operated at input regular voltage 100Vt AC to 240V AC  
The SMPS should be capable of a total continuous DC power output of 7.5 watts  
The SMPS should be capable of a total peak 10 watts  
The SMPS should be able to single output only  
The SMPS should not be fired or emitted smoke by protection when the circuit is short  
The SMPS should carried maximum power when the output circuit is short that the unit is really hot

### DC Insulation Resistance:

Input - output	: 50MΩ minimum (at 500V DC)
Input - body metal	: 50MΩ minimum (at 500V DC)

### Dielectric Withstand - Voltage:

Input - output	: 3750V AC minimum for (1 minute)
Input - body metal	: 3750V AC minimum for (1 minute)

### Main Fuse:

Input fuse is 10Ω, 1W fusible resistor

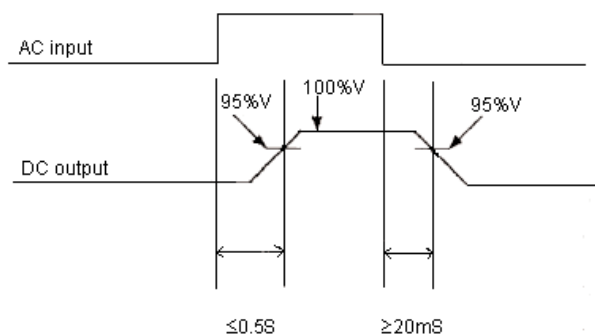
## Inrush Current:

Peak inrush current shall be limited to 10A for a cold start

## Time Sequence:

Time sequence should be satisfied to power ON/OFF

## AC switch at ON/OFF:

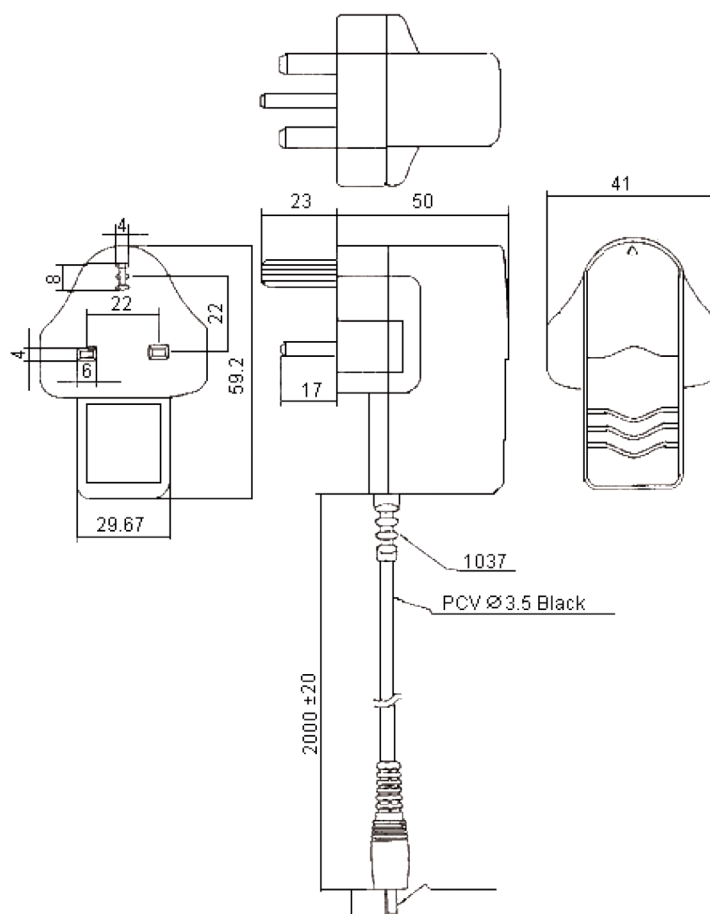


## Efficiency:

The efficiency of the SMPS must be satisfied the minimum 70%

## Output Rated and Electrical Specifications

Rated Output (V)	5	6	7.5	9	12	15
Rated Current (A) at 240V	1.5	1.3	1.2	1	0.7	0.55
Rated Current (A) at 100V	1.1	1	0.9	0.8	0.6	0.45
Peak Load Current (A)	2		1.5		0.9	0.7
Short Output Current (A)	3					
Load Variable Range (A)	0 - 1.5	0 - 1.3	0 - 1.2	0 - 1	0 - 0.75	0 - 0.6
Maximum Output Voltage (V)	5.4	6.4	7.8	9.4	12.6	15.7
Minimum Output Voltage (V)	4.8	5.7	7.2	8.6	11.4	14.4
Ripple and Noise (mV)	35		50		80	100
Over Voltage Protection	No					
Over Heat Protection	Yes					
Rated Power (W)	7.5	7.8	9			
Peak Power (W)	10					
Switch Frequency (KHz)	130					
Insulation Class	II					
Consumes (W)	< 0.2					



Dimensions : Millimetres

## Part Number Table

Description	Part Number
Adaptor, Reg, 5V DC, 1.5A	9820-05-UK
Adaptor, Reg, 6V DC, 1.3A	9820-06-UK
Adaptor, Reg, 7.5V DC, 1.2A	9820-075-UK
Adaptor, Reg, 9V DC, 1A	9820-09-UK
Adaptor, Reg, 12V DC, 700mA	9820-12-UK
Adaptor, Reg, 15V DC, 550mA	9820-15-UK

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