

## FEATURES

- Universal Input
- Class I (C14)
- Worldwide Approvals
- Safety Protection
- Power on LED
- 2.1x5.5x11mm DC Connector

## Desktop Power Supplies

2107460, 2107462, 2107464, 2107465, 2107467



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

The purpose of the document is to specify a Single-phase AC input, single output switching power supply. This specification is for: Desktop Power Supplies 90W–96W Series. This product is suitable for use in the IT, Audio, Video, Instrumentation, Communication and many other applications. Its available with a number of output voltages and currents providing a constant voltage source. This Specification defines the input, output, performance characteristics, environment, noise and safety requirements.

## General Specifications

<b>Type</b>	Switched Mode Power Supply
<b>Input Connector</b>	IEC 320-C14
<b>Output Connection</b>	2.1x5.5x11.0mm +ve inner/centre
<b>Number of Outputs</b>	1
<b>Energy Efficiency Level</b>	VI
<b>Mounting Style</b>	Desktop
<b>MTBF</b>	20,000 hours at maximum load /709.7K hrs min. MIL-HDBK-217F(25°C)
<b>Switching Frequency</b>	65KHz
<b>Power Indicator</b>	LED Indicator for power on
<b>Cable Length</b>	1200mm(±100mm)
<b>Cable Type</b>	16AWG/18AWG/20AWG (Depending on model)
<b>Medical Approved</b>	No

## Electrical Specifications

RS Stock#	Input Voltage	Output Voltage	Output Current	Output Wattage	Efficiency (Typ)
<b>2107460</b>	90 to 264V ac	+ 12V DC	8A	96W	88%
<b>2107462</b>	90 to 264V ac	+ 15V DC	6.4A	96W	88%
<b>2107464</b>	90 to 264V ac	+ 18V DC	5.3A	95.4W	88%
<b>2107465</b>	90 to 264V ac	+ 24V DC	4A	96W	88%
<b>2107467</b>	90 to 264V ac	+ 48V DC	2A	96W	88%

Input Specifications	
<b>Rated Input Voltage</b>	100 to 240V ac
<b>Full Input Voltage Range</b>	90 – 264V ac
<b>Rated Frequency</b>	50/60Hz
<b>Full Frequency Range</b>	47/63Hz
<b>Efficiency Level VI</b>	Level VI / Efficiency (EU) 2019/1782
<b>Power Factor</b>	0.6
<b>Input Current (RMS Max.)</b>	2.5A
<b>Inrush Current</b>	80 Amps Max. Cold start at 240Vac input, with rated load and 25°C ambient
<b>Leakage Current (max.)</b>	0.75mA / 240V ac
<b>Input Protection</b>	Thermal fuse in Primary; Current Limit, Short Circuit

Output Specification		
Output Regulation	+/-5%	
Ripple & Noise (max.)	120mVp-p ~ 240mVp-p (Depending on model)	
Voltage Tolerance	±5.0%	
Line Regulation	±1.0%	
Load Regulation	±5.0%	
No Load Power Consumption	<0.21W (<0.1W for 5V Model)	
Startup, Rise Time	40ms Max at 115V ac input and output Max load.	
Hold Up Time (Typ.)	50ms Min. at 115V ac input and output Max Load.	
Transient Response	4% Deviation	
Number of Outputs	1	
Turn On Delay	3 Seconds Max. at 115V ac input and output Max Load.	
Insulation Class	I/II	
Switching Frequency	65KHz	
Isolation Resistance	20MΩ @500V dc	
Overload Protection	Hiccup mode, recovers automatically after fault condition is removed	
Over Voltage Protection	Auto recover when 120% ~ 170% of fault is removed.	
Over Temperature Protection	Shut down o/p voltage, re-power on to recover	
Short Circuit Protection	Auto recover when the short circuit fault is removed	
Voltage Isolation	Input-Output	1500V ac
	Input-Ground	1500V ac
	Output-Ground	500V ac

### Mechanical Specifications

<b>Housing Material</b>	Fully Enclosed Plastic Case
<b>Overall Dimensions</b>	140mm x 60.5mm x 33mm
<b>Overall Length</b>	140mm
<b>Overall Depth</b>	60.5mm
<b>Overall Width</b>	33mm
<b>Weight</b>	380g

### Operation Environment Specifications

<b>Cooling</b>	Natural convection
<b>Operating Temperature Range</b>	0 to 40°C
<b>Operating Humidity</b>	20% to 90% RH non-condensing
<b>Storage Temperature Range</b>	-20 to 80°C
<b>Temperature Coefficient</b>	± 0.03% / C
<b>Altitude During Operation</b>	2000m
<b>Pollution Degree</b>	2
<b>Vibration Resistance</b>	10-500Hz, 2G, along X, Y,Z each Axis, 60 min for each Axis
<b>Shock Resistance</b>	15G, 11ms, 3 Axis, 6 Faces, 3 times for each Face

### Protection Category

<b>IP Rating</b>	IP20
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### Classification

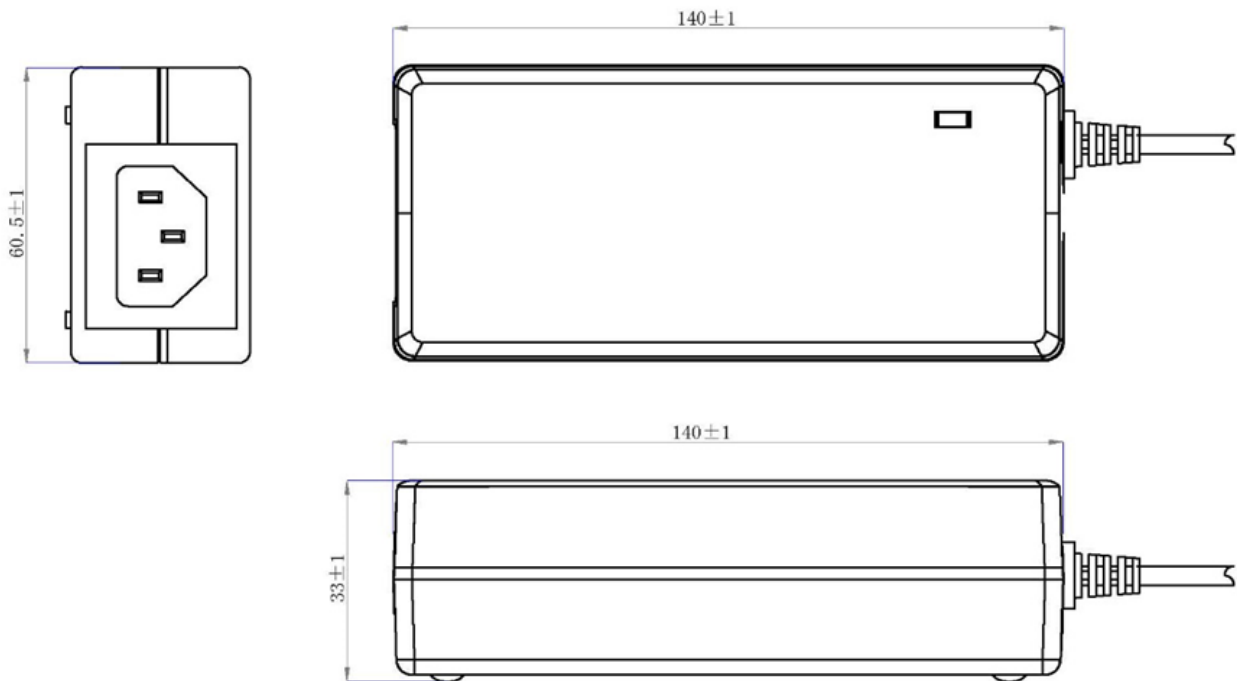
<b>eCl@ss (Version)</b>	N/A
<b>UNSPSC (Version)</b>	N/A
<b>ETIM (Version)</b>	N/A

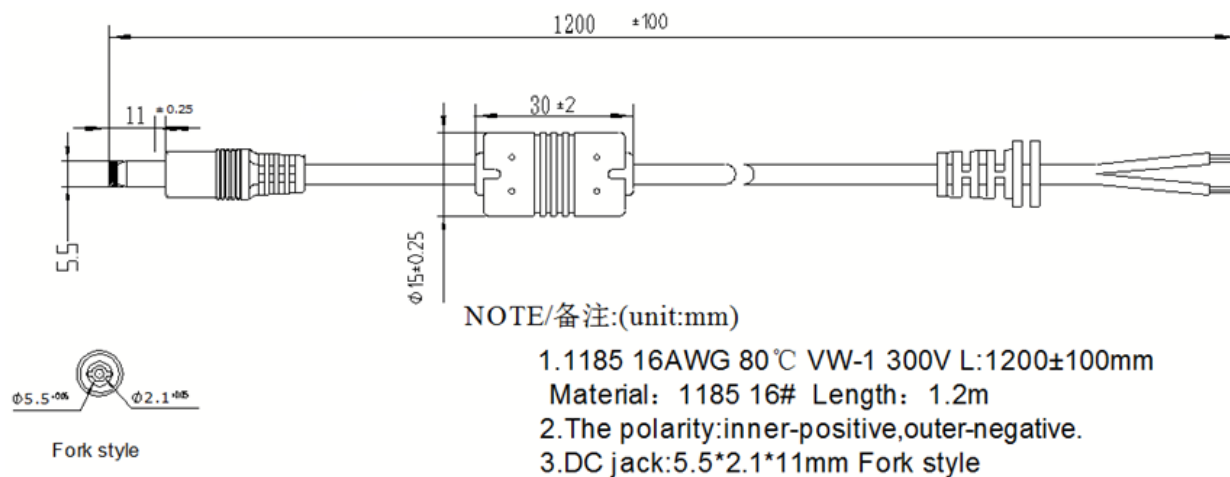
Approvals

Compliance/Certifications	CB / TUV/GS / UL/CUL / PSE
Safety Standard	UL62368-1, EN 62368-1, IEC 62368-1, J60950-1 approved
EMC Emission	Compliance to EN 55032, EN 55024, EN 55014, FCC

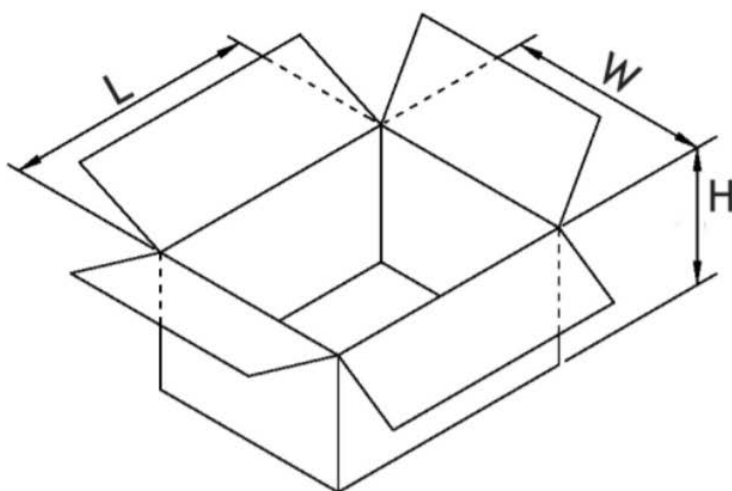
MECHANICAL REQUIREMENT:

- 9.1 Enclosure: L140 x W60.5 x H33mm: The power supply size: L140 x W60.5 x H33mm;  
9.2 Input Connector: IEC-320-C14.



**DC CORD****PACKING:**

Carton:SIZE (LxWxH)375X350X300mm,40PCS/CTN,14KG/CTN



Inner box:

Small White Box ASS'Y

Outside box size :L\*W\*H:170\*70\*70mm

