



## Features

- IEC / EN / ANSI / AAMI / ES60601-1 (Edition 3.1)
- EMC: IEC60601-1-2:2014 (Edition 4.0)
- Means of Protection: 2 x MOPP
- 100 - 240Vac Wide Universal Input
- Single Output to 20W
- Regulated Output with Low Ripple & Noise
- Private Label Marking Available
- Modified and Custom Design Available
- 2 Years Warranty
- No Load Power Consumption Less Than 0.075W



Specification		
<b>Output</b>	Output Voltage/Current:	See Product Chart on Page 2
	Load Regulation:	± 5% (Typical)
	Ripple & Noise:	2% Vp-p Max. for Output Voltage at Full Load
	Transient Response:	0.5mS for 50% Load Change Typical
	Hold Up Time:	10mS at Full Load
	No Load Power:	≤ 0.15W
<b>Input</b>	AC Voltage:	100 - 240Vac 50/60Hz
	AC Current:	0.45A - 0.30A Max.
	AC Protection:	Internal Primary Current Fuse
<b>Electrical Spec</b>	Topology:	Switching Flyback
	Dielectric Withstand:	4000Vac Primary - Secondary
	Touch Current:	≤ 100µA
	Efficiency:	Meet DoE Level VI
	DC Cord:	22AWG / 20AWG / 18AWG
	Ferrite Core:	No (Optional)
<b>Means of Protection</b>	Medical Standard	2 x MOPP
<b>Protection</b>	Short Circuit:	Short Circuit Protection (SCP)
	Over Voltage:	Over Voltage Protection (OVP)
	Over Current:	Over Current Protection (OCP)
<b>EMC: EMI / EMS</b>	EMC Emission:	EN55011, EN61000-3-2,3
	EMC Immunity:	EN61000-4-2,3,4,5,6,8,11 (IEC60601-1-2:2014 4th Edition)
<b>Safety Approvals</b>	Approvals Europe & UK:	CB / UL / cUL / FCC / PSE
	Approvals USA:	CE / CB / TÜV
	Certification:	IEC60950, IEC/EN/UL/ES60601, IEC60601-1-2:2014 (3.1th Edition)
<b>Environmental</b>	Operating TEMP.:	0°C to +40°C
	Storage TEMP.:	-20°C to +80°C
	Operating Humidity:	20% to 80% RH
	Storage Humidity:	10% to 90% RH
	Cooling:	Natural Convection Cooling
	MTBF:	300K Calculated Hours at +25°C Telcordia SR 332

Product Chart				
Type of AC Inlet	Model	Output Voltage (Vout)	Output Current (Iout)	Power (W)
Plug In with US Plug	M020 - W050U	5.00 Vdc	3.50 A	17.50 W
	M020 - W060U	6.00 Vdc	3.00 A	17.50 W
	M020 - W090U	9.00 Vdc	2.22 A	20.00 W
	M020 - W120U	12.00 Vdc	1.67 A	20.00 W
	M020 - W150U	15.00 Vdc	1.33 A	20.00 W
	M020 - W180U	18.00 Vdc	1.11 A	20.00 W
	M020 - W240U	24.00 Vdc	0.83 A	20.00 W
	M020 - W480U	48.00 Vdc	0.42 A	20.00 W
Plug In with EU Plug	M020 - W050E	5.00 Vdc	3.50 A	17.50 W
	M020 - W060E	6.00 Vdc	3.00 A	17.50 W
	M020 - W090E	9.00 Vdc	2.22 A	20.00 W
	M020 - W120E	12.00 Vdc	1.67 A	20.00 W
	M020 - W150E	15.00 Vdc	1.33 A	20.00 W
	M020 - W180E	18.00 Vdc	1.11 A	20.00 W
	M020 - W240E	24.00 Vdc	0.83 A	20.00 W
	M020 - W480E	48.00 Vdc	0.42 A	20.00 W
Plug In with UK Plug	M020 - W050B	5.00 Vdc	3.50 A	17.50 W
	M020 - W060B	6.00 Vdc	3.00 A	17.50 W
	M020 - W090B	9.00 Vdc	2.22 A	20.00 W
	M020 - W120B	12.00 Vdc	1.67 A	20.00 W
	M020 - W150B	15.00 Vdc	1.33 A	20.00 W
	M020 - W180B	18.00 Vdc	1.11 A	20.00 W
	M020 - W240B	24.00 Vdc	0.83 A	20.00 W
	M020 - W480B	48.00 Vdc	0.42 A	20.00 W

Mechanical Dimension & Weight			
Mechanical	Case Dimension:	U = US Plug:	72 x 34 x 69mm (L x W x H)
		E = EU Plug:	72 x 34 x 90mm (L x W x H)
		B = UK Plug:	72 x 50 x 81mm (L x W x H)
	Weight:	U = US Plug:	148g (Ref)
		E = EU Plug:	143g (Ref)
		B = UK Plug:	158g (Ref)