



# SM150Q1R – SM160Q1R Series

150 - 160 Watt AC-DC Medical Desktop Power Supply  
IEC 60601-1-2 4<sup>th</sup> Ed. EMC, Energy Efficiency Level VI

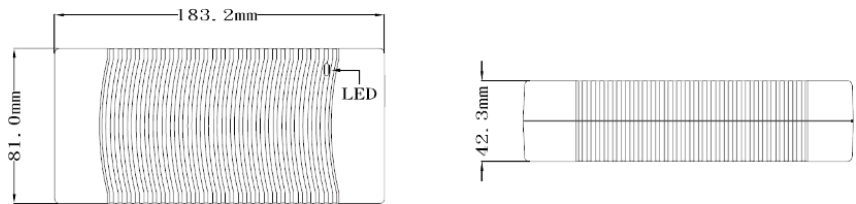
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The SM150Q1R – SM160Q1R Series switch mode power supply offers 150 Watts to 160 Watts output power, with an output voltage range of 12 Vdc – 48 Vdc. Case style is a desktop enclosure with choice of IEC-320 C6 or C14 input socket, with ES, EN and IEC 60601-1 3.1 Edition safety approvals, IEC 60601-1-2 4<sup>th</sup> Edition EMC, IEC 60950-1 2<sup>nd</sup> Edition Safety approval, and Energy Efficiency Level 6.



## Features:

- Dual ITE and Medical Approvals
- 2x MOPP Protection
- Touch Current: < 100  $\mu$ A
- Over-Voltage, Over-Current, and Short Circuit Protection
- 100% Burn-In
- RoHS 2 Compliant
- Energy Efficiency Level: VI
- Meets IEC 60950-1 2<sup>nd</sup> Edition
- Meets IEC 60601-1-2: 2014 4<sup>th</sup> Edition EMC Requirements

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- Output Voltage: See Table
- Input Socket: 6 = C6 Socket  
9 = C14 Socket
- Output Power: See Table

## Electrical Information

<b>Input Voltage</b>	90 to 264 Vac
<b>Input Frequency</b>	47 to 63 Hz
<b>Input Current</b>	1.8 – 0.9 A
<b>Over-Voltage Protection</b>	Unit is protected from over-voltage conditions
<b>Over-Current Protection</b>	Unit is protected from over-current conditions
<b>Hold-Up Time</b>	10 ms
<b>Operating Temperature</b>	0 - 40°C
<b>Storage Temperature</b>	-20 - 80°C
<b>Weight</b>	820 g (Ref.)
<b>Industry Compliance</b>	RoHS 2, Energy Efficiency Level VI
<b>EMC Requirements</b>	IEC 60601-1-2: 2014 4 <sup>th</sup> Edition
<b>EMI Requirements</b>	Meets Conduction and Radiation Limits of: Class B: FCC Part 18, CISPR-11, EN 55011
<b>Safety Compliance</b>	UR/c-UR (ES60601-1: 3.1 Edition), TUV T- Mark (EN/IEC 60601-1: 3.1 Edition), CE, PSE, CB (IEC 60601-1: 3.1 Edition, IEC 60950-1: 2 <sup>nd</sup> Edition)

Output Voltage	Output Current	Output Power (Max.)
12 Vdc	12.5 A	150 W
19 Vdc	8.4 A	160 W
24 Vdc	6.6 A	160 W
48 Vdc	3.3 A	160 W

Note: Output connector to be specified by customer. APX will be happy to recommend the appropriate connector for your application needs. The cable length and wire gauge will be dependent on the Energy Efficiency level requirements.



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