



SM192Q1R – SM201Q1R Series

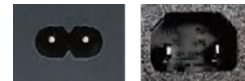
192 – 201 Watt AC-DC Medical Desktop Power Supply
IEC 60601-1-2 4th Ed. EMC, DoE VI, RoHS 2 Compliant

Date: 10/22/18

Rev: 060218

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The SM192Q1R – SM201Q1R Series switch mode power supply offers 192 Watts to 201 Watts output power, with an output voltage range of 12 Vdc – 48 Vdc. Case style is a desktop enclosure with choice of IEC-320 C8, C14, or C18 input socket, with ES, EN and IEC 60601-1 3.1 Edition safety approvals, IEC 60601-1-2 4th Edition EMC, IEC 60950-1 2nd Edition Safety approval, and DoE Level 6.

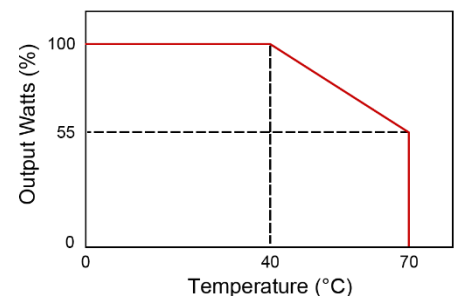


Input Voltage	90 to 264 Vac
Input Frequency	47 to 63 Hz
Input Current	C14 Input: 0.9 – 2.5 A C8 & C18 Input: 0.9 – 2.4 A
Leakage Current	< 100 μ A
Output Voltage & Current	See Table on Page 2
Ripple & Noise (P-P) ¹	1% Max.
Over-Voltage Protection	Unit is protected from over-voltage conditions
Over-Current Protection	Unit is protected from over-current conditions
Over-Temperature Protection	Unit is protected from over-temperature conditions
Transient Response	50% Load Change: 0.5 ms Typ.
Efficiency	Meets DoE Level VI efficiency
No Load Power Consumption	< 0.15 Watts
Load Regulation	\pm 5% Typ.
Hold-Up Time	10 ms Min.
Withstanding Voltage	Primary to Secondary: 4,000 Vac Min.
Mean Time Between Failure	Full Load at 25°C Ambient: 300,000 Hours Min. (Telcordia)
Operating Temperature	0 to 40°C
Storage Temperature	-20 to 80°C
Industry Compliance	Directive 2011/65/EU (RoHS 2), DoE VI
Weight	880 g (Ref.)
EMC Requirements	IEC 60601-1-2: 2014 4 th Ed., EN 55011, EN 61000-3-2,3, EN61000-4-2,3,4,5,6,8,11
EMI Requirements	Meets Conduction and Radiation Limits of: CISPR-11 Class B, EN 55011 Class B, and FCC Part 18 Class B
Safety Compliance	Medical Approvals: UR/cUR (ES 60601-1:3.1 Ed.), CE, TUV T- Mark (EN 60601-1:3.1 Ed.) CB ITE Approvals: PSE, CB (IEC 60950-1:2 nd Ed.)

Features:

- Dual ITE and Medical Approvals
- 2x MOPP Protection
- Touch Current: < 100 μ A
- Over-Voltage, Over-Current, Over-Temperature, and Short Circuit Protection
- 100% Burn-In
- RoHS 2 Compliant
- DoE Level VI
- Meets IEC 60950-1 2nd Edition
- Meets IEC 60601-1-2: 2014 4th Edition EMC Requirements

Derating Curve



Derate Linearly from 100% at 40°C to 50% at 70°C

Note:

1. Ripple & Noise are measured with a 0.1 μ F multilayer capacitor & 0.10 μ F low ESR electrolytic capacitor in parallel and a 20 MHz bandwidth-limited scope



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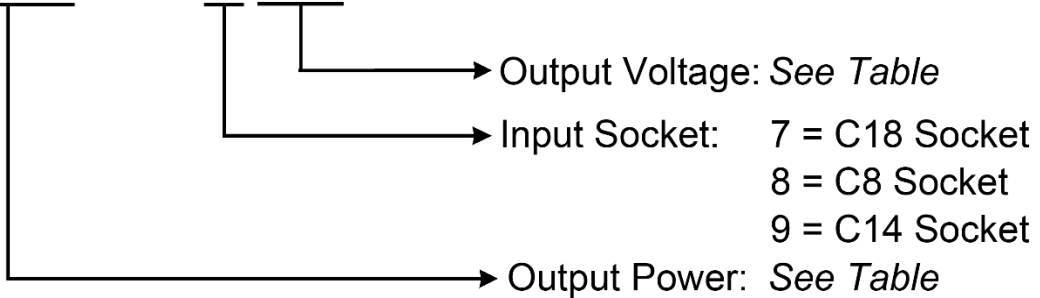
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Output Voltage and Current Table

Model Number	Output Voltage	Output Current	Output Power
SM192Q1R_ 12R	12 Vdc	16.0 A	192 W
SM195Q1R_ 15R ¹	15 Vdc	13.0 A	195 W
SM198Q1R_ 18R	18 Vdc	11.0 A	198 W
SM200Q1R_ 19R	19 Vdc	10.5 A	200 W
SM200Q1R_ 24R	24 Vdc	8.3 A	200 W
SM201Q1R_ 48R	48 Vdc	4.2 A	201 W

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Notes:

- 1. Only available in C8 or C18 input socket



TECHNOLOGIES INC.
HICKSVILLE, NEW YORK

264 Duffy Avenue
Hicksville, NY 11801

Tel: (516) 433-1313
Fax: (516) 433-1457

Web: www.apxonline.com
Email: sales@apxonline.com

Specification subject to
change without notice



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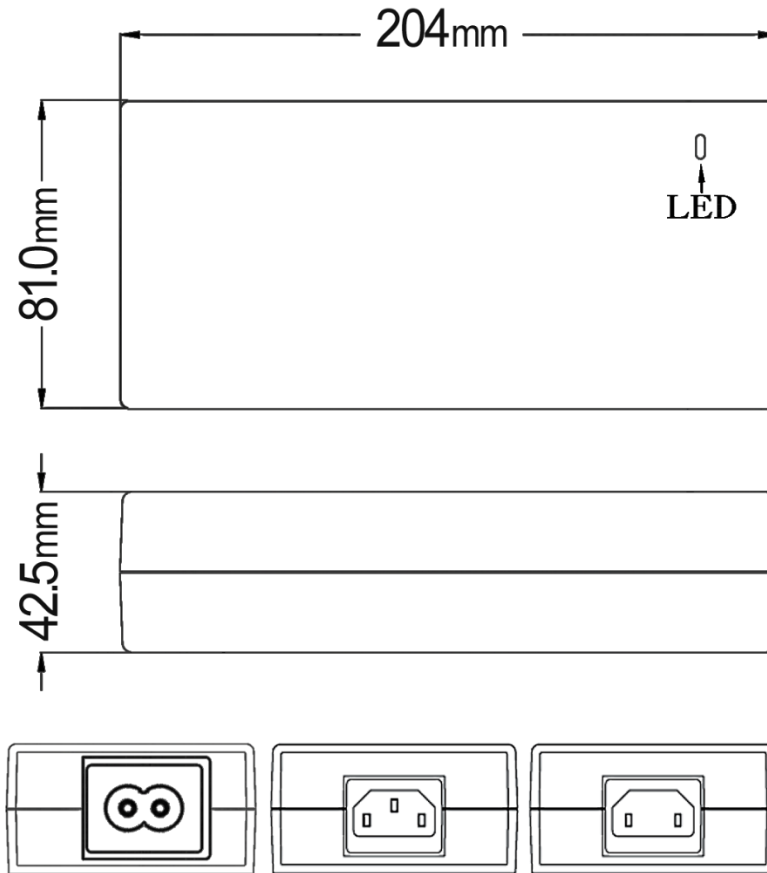
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Mechanical Specification (mm)



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.