



# SMF150Q Series

150 Watt AC-DC Open Frame Medical Power Supply  
IEC 60101-1-2 4<sup>th</sup> Ed. EMC, DoE Level VI, RoHS 2 Compliant

Date: 10/10/18

Rev: 070918

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The SMF150Q Series switch mode power supply offers 150 Watts output power, with an output voltage range of 12 Vdc, 24 Vdc, 30 Vdc, and 48 Vdc. Case style is an open frame with pin header, with ES/EN/IEC 60601-1 3.1 Edition safety approvals, IEC 60601-1-2 4<sup>th</sup> Edition EMC, UL/EN/IEC 60950-1 2<sup>nd</sup> Edition Safety approval, and DoE Level 6 efficiency.



Input Voltage	90 to 264 Vac
Input Frequency	47 to 63 Hz
Input Current	1.7 – 0.8 A
Touch Current	< 100 $\mu$ A
Output Voltage & Current	See Table on Page 2
Ripple & Noise (P-P) <sup>1</sup>	1% Max.
Over-Voltage Protection	Unit is protected from over-voltage conditions
Over-Current Protection	Unit is protected from over-current conditions
Transient Response	50% Load Change: 0.5 ms Typ.
Efficiency	DoE Level VI
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 50°C
Storage Temperature	-20 to 80°C
Industry Compliance	RoHS 2, DoE Level VI
Weight	320 g (Ref.)
EMC Requirements	IEC 60601-1-2: 2014 4 <sup>th</sup> Ed., EN 55024, EN 61000-3-2, -3-3
EMI Requirements	Meets Conduction and Radiation Limits of: CISPR-11 Class B, EN 55011 Class B, and FCC Part 15 Class B
Safety Compliance	UR/cUR (ES 60601-1:3.1 Ed.), TUV T- Mark (EN 60601-1:3.1 Ed.), CE, CB (UL/EN/IEC 60950-1:2 <sup>nd</sup> Ed.), FCC

## Features:

- Universal Input 100 - 240 Vac
- 2 x MOPP Protection
- < 100  $\mu$ A Touch Current
- Over-Voltage, Over-Current, and Short Circuit Protection
- 100% Burn-In
- DoE Level VI
- Meets UL/EN/IEC 60950-1 2<sup>nd</sup> Ed.
- Meets IEC 60601-1-2: 2014 4<sup>th</sup> Edition EMC Requirements

### Note:

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



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## Output Voltage and Current Table

Model Number	Output Voltage	Output Current	Output Power
SMF150Q112AR	12 Vdc	12.50 A	150 W
SMF150Q124AR	24 Vdc	6.25 A	150 W
SMF150Q130AR	30 Vdc	5.00 A	150 W
SMF150Q148AR	48 Vdc	3.12 A	150 W

## Mechanical Specification (mm)

