



V-INFINITY

VOFM-5 Series Switching Power Supply

Rev. 04-2007

Features

- Universal input 85~264 Vac
- Designed for medical application
- Industry standard foot-print
- Efficiency up to 77%
- Safety approved to UL/cUL 60601, TUV, CE
- Conducted EMI meets EN55022 class B

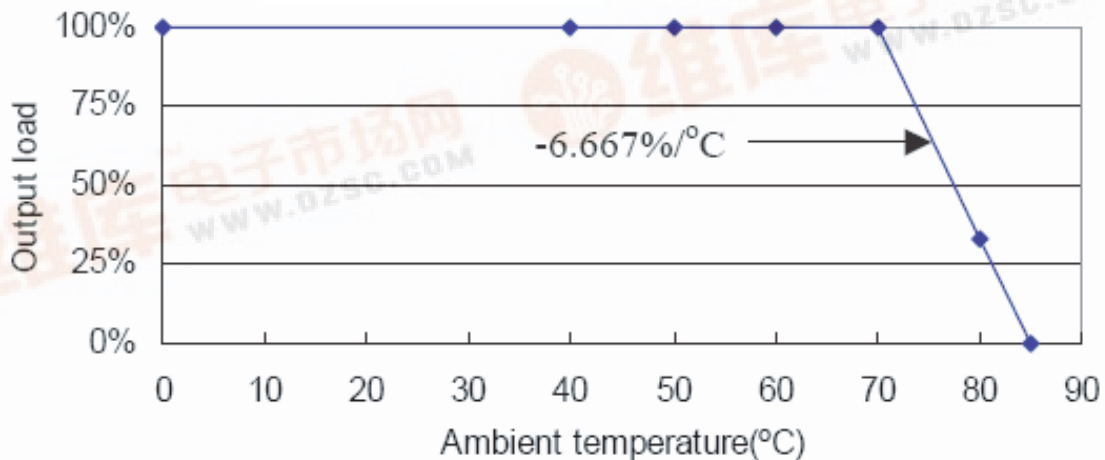


Model	Voltage (V)	Current (A)	Line Reg. ¹ (%)	Load Reg. ² (%)	Ripple & Noise ³ (mVp-p max)	Efficiency (%)
VOFM-5-3.3	3.3	1.25	0.5	1.0	50	68
VOFM-5-5	5.0	1.0	0.5	1.0	50	72
VOFM-5-9	9.0	0.55	0.5	1.0	90	74
VOFM-5-12	12.0	0.42	0.5	1.0	120	75
VOFM-5-15	15.0	0.33	0.5	1.0	150	75
VOFM-5-18	18.0	0.28	0.5	1.0	180	76
VOFM-5-24	24.0	0.23	0.5	1.0	240	77

Notes:

1. Measured from High Line to Low Line at Full load.
2. Measured from Full load to 10% load at 110 VAC.
3. Use a 0.1uF ceramic cap. and a 10uF Electrolytic cap. on the output to measure Ripple & Noise at 20MHz BW.

VOFM-5 series Derating Curve



Input

Parameter	Conditions/Description	Min	Nom	Max	Units
Input Frequency		47		63	Hz
Input Voltage	Output power derated from 85-90 VAC	85		264	VAC
Input Current	Measured at 85VAC, Full load			200	mA
Inrush Current	Peak measured at 264 VAC at full load, cold start			40	A

Output

Parameter	Conditions/Description	Min	Nom	Max	Units
Efficiency	Measured at 115VAC, 60Hz or 230VAC, 50Hz		See Table above		
Hold up time	At 115 VAC, full load	8			mS
Turn on Delay	Full load	1			S

Protection Circuit

Parameter	Conditions/Description
Short Circuit	Auto-recover once short is removed.
Over load	less than 180% of full load
Output Over-voltage	130% to 150% output rating.

General and Safety

Parameter	Conditions/Description	Min	Nom	Max	Units
Operating temp.		0		70	°C
Storage temp.		-20		85	°C
Operating Humid.	non-condensing	0		93	%
Storage Humid.		0		93	%
Leakage current				<100	µA
Safety	Approved to UL/cUL 60601-1 (E302945), TUV EN60601-1, CE				
EMC Standards	EN55011, EN55022, EN55024, EN61204-3, EN61000-3-2/3, EN61000-6-1/3, EN60601-1-2				
Isolation Voltage (HI-POT)	Applied for 1 minute. Primary to secondary: Primary to transformer core:	6565			VDC VAC
Insulation Resistance	Per EN60601-1				
RoHS	Yes				
Warranty	Standard Warranty Length			2	years



Mechanical

Parameter	Conditions/Description	Min	Nom	Max	Units
Dimensions	2.17 x 1.38 x 0.87				inches
Cooling method	Free air convection				

Outline drawings

