

















Features

- 1.65"x0.88" compact size
- Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1 and IEC/EN60601-1
- Suitable for BF application with appropriate system consideration
- No load power consumption<0.075W
- Extremely low leakage current
- Wide operating temp. range -40 ~ +85°C
- EMI class B for class ${\rm I\hspace{-.1em}I}$ configuration
- Short circuit / Overload / Over voltage / Over temperature
- No minimum load required Typical lifetime > 52K hours
- 3 years warranty

Protections:

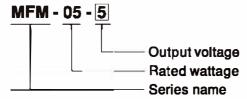
Applications

- Portable medical device
- Mobile clinical workstation
- Medical computer monitor
- Medical examination instrument

Description

MFM-05 is a 5W high density and small size (42*22.3*20.5mm) AC/DC on board type medical grade power supply series. It features the operation for 80~264VAC, a low no load power consumption less than 0.075W, a high efficiency up to 82%, Class II (no FG) double insulation, outstanding dissipation, 5G anti-vibration, high EMC performance, 4KVAC isolation, etc. The design observes IEC/EN60601-1 and ANSI/AAMI ES60601-1 version three with 2xMOPP level and ultra-low leakage current ($<80 \mu$ A). It is very suitable for BF (patient contact) type medical device or relevant equipment.

Model Encoding

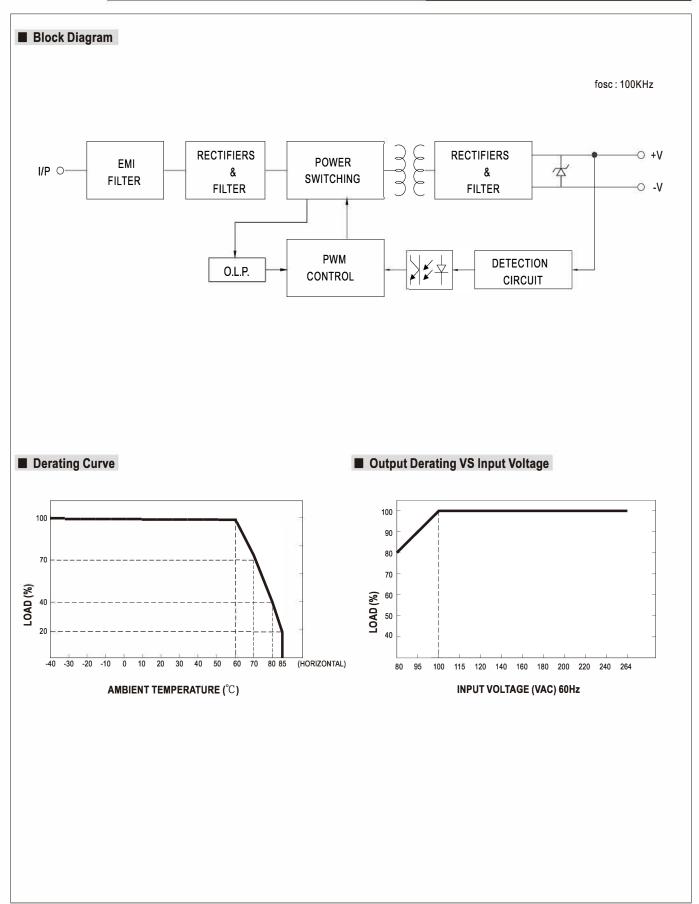




SPECIFICATION

URRENT POWER OAD(10sec.) Note.3 & NOISE (max.) Note.4 & TOLERANCE Note.5 EGULATION REGULATION RISE TIME P TIME (Typ.) GE RANGE Note.6 ENCY (Typ.) RENT (Typ.) I CURRENT (Typ.) I CURRENT (max.) Note.7 OAD OLTAGE EMPERATURE NG TEMP.	100mVp-p ±2.5% ±0.3% ±0.5% 1000ms, 30ms/230VAC 40ms/230VAC 12ms 80 ~ 264VAC 47 ~ 440Hz 74% 0.2A/115VAC 0.1A/2 COLD START 25A/115' Touch current <80 \(\alpha \) A/26 110% ~ 180% rated output Protection type: Hiccup is 3.8 ~ 5V	8/115VAC at full loa 80% 230VAC VAC 45A/230V 4VAC ut power	80% /AC	15V 0.33A 0 ~ 0.33A 0.36A 5W 5.4W 150mVp-p ±2.5% ±0.3% ±0.5%	24V 0.23A 0 ~ 0.23A 0.25A 5.5W 6W 180mVp-p ±2.5% ±0.3% ±0.5%				
NT RANGE Note.2 UURRENT POWER OAD(10sec.) Note.3 & NOISE (max.) Note.4 SE TOLERANCE Note.5 EGULATION RISE TIME IP TIME (Typ.) SE RANGE Note.6 ENCY (Typ.) RENT (Typ.) IE CURRENT (Typ.) IE CURRENT (max.) Note.7 OAD OLTAGE EMPERATURE NG TEMP.	0 ~ 1.25A 1.38A 4.1W 4.6W 100mVp-p ±2.5% ±0.3% ±0.5% 1000ms, 30ms/230VAC 40ms/230VAC 12ms 80 ~ 264VAC 47 ~ 440Hz 74% 0.2A/115VAC 0.1A// COLD START 25A/115 Touch current <80 \(\alpha \) /26 110% ~ 180% rated output Protection type: Hiccup is 3.8 ~ 5V	0 ~ 1A 1.1A 5W 5.5W 100mVp-p ±2.5% ±0.3% ±0.5% 1000ms, 30ms s/115VAC at full loa 80% 230VAC VAC 45A/230V 4VAC ut power	0 ~ 0.42A 0.46A 5W 5.5W 150mVp-p ±2.5% ±0.3% ±0.5% //115VAC at full load d	0 ~ 0.33A 0.36A 5W 5.4W 150mVp-p ±2.5% ±0.3% ±0.5%	0 ~ 0.23A 0.25A 5.5W 6W 180mVp-p ±2.5% ±0.3% ±0.5%				
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EGULATION REGULATION RISE TIME IP TIME (Typ.) SE RANGE Note.6 ENCY RANGE INCY (Typ.) RENT (Typ.) ICURRENT (Typ.) SE CURRENT (max.) Note.7 OAD OLTAGE EMPERATURE NG TEMP.	±0.3% ±0.5% 1000ms, 30ms/230VAC 40ms/230VAC 12ms 80 ~ 264VAC 47 ~ 440Hz 74% 0.2A/115VAC 0.1A/. COLD START 25A/115' Touch current <80 \(\mu A/26 \) 110% ~ 180% rated output Protection type: Hiccup is 3.8 ~ 5V	±0.3% ±0.5% 1000ms, 30ms s/115VAC at full loa 80% 230VAC VAC 45A/230V 4VAC ut power	±0.3% ±0.5% //115VAC at full load d	±0.3% ±0.5%	±0.3% ±0.5%				
REGULATION RISE TIME IP TIME (Typ.) SE RANGE Note.6 ENCY RANGE INCY (Typ.) RENT (Typ.) ICURRENT (Typ.) SE CURRENT (max.) Note.7 OAD OLTAGE EMPERATURE NG TEMP.	±0.5% 1000ms, 30ms/230VAC 40ms/230VAC 12ms 80 ~ 264VAC 47 ~ 440Hz 74% 0.2A/115VAC 0.1A/ COLD START 25A/115' Touch current <80 \(\mu A/26 \) 110% ~ 180% rated outple Protection type: Hiccup is 3.8 ~ 5V	±0.5% 1000ms, 30ms 5/115VAC at full loa 80% 230VAC VAC 45A/230V 4VAC ut power	±0.5% //115VAC at full load d 80%	±0.5%	±0.5%				
RISE TIME IP TIME (Typ.) GE RANGE Note.6 ENCY RANGE INCY (Typ.) IRENT (Typ.) ICURRENT (Typ.) ICURRENT (max.) Note.7 OAD OLTAGE EMPERATURE ING TEMP.	1000ms, 30ms/230VAC 40ms/230VAC 12ms 80 ~ 264VAC 47 ~ 440Hz 74% 0.2A/115VAC 0.1A/. COLD START 25A/115' Touch current <80μA/26 110% ~ 180% rated output Protection type : Hiccup of the state	1000ms, 30ms 5/115VAC at full loa 80% 230VAC VAC 45A/230V 4VAC ut power	//115VAC at full load d 80%						
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ENCY (Typ.) PRENT (Typ.) I CURRENT (Typ.) I CURRENT (max.) Note.7 OAD OLTAGE EMPERATURE NG TEMP.	74% 0.2A/115VAC 0.1A/ COLD START 25A/115\ Touch current <80 \(\text{A} \) /26 110% ~ 180% rated output Protection type: Hiccup is 3.8 ~ 5V	230VAC	/AC	81%	82%				
RENT (Typ.) I CURRENT (Typ.) IE CURRENT (max.) Note.7 OAD OLTAGE EMPERATURE NG TEMP.	0.2A/115VAC 0.1A/ COLD START 25A/115' Touch current <80,µA/26 110% ~ 180% rated output Protection type : Hiccup in 3.8 ~ 5V	230VAC	/AC	81%	82%				
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E CURRENT (max.) Note.7 OAD OLTAGE EMPERATURE NG TEMP.	Touch current <80 μ A/26 110% ~ 180% rated outpi Protection type : Hiccup i 3.8 ~ 5V	4VAC ut power							
OAD OLTAGE EMPERATURE NG TEMP.	110% ~ 180% rated output Protection type: Hiccup if 3.8 ~ 5V	ut power	omotioally offer for the control						
OLTAGE EMPERATURE NG TEMP.	Protection type : Hiccup ii 3.8 ~ 5V		omotically often facilities and the		· · · · · · · · · · · · · · · · · · ·				
OLTAGE EMPERATURE NG TEMP.	3.8 ~ 5V	mode, recovers aut	Protection type: Hiccup mode, recovers automatically after fault condition is removed						
EMPERATURE NG TEMP.			omatically after fault conditi	on is removed					
EMPERATURE NG TEMP.	Protection time : Cht - #	5.75 ~ 6.8V	13.8 ~ 16.2V	17.3 ~ 20.3V	27.6 ~ 32.4V				
NG TEMP.	Frotection type : Shut off	o/p voltage, clampi	ng by zener diode						
NG TEMP.		1 0 1	overs automatically after ter	nperature goes down					
	-40 ~ +85°C (Refer to "De		overe duternationly diter to	nporataro godo domi					
	20 ~ 90% RH non-condensing								
NG HUMIDITY									
GE TEMP., HUMIDITY	-40 ~ +100°C, 10 ~ 95%	RH non-condensing)						
COEFFICIENT	±0.03%/°C (0~60°C)								
RING TEMPERATURE	260°C ±5°C/10sec.max								
ION	10 ~ 500Hz, 5G 10min./1	cycle, period for 60	min. each along X, Y, Z axes	S					
TING ALTITUDE Note.8									
	IEC60601-1, EN60601-1, EAC TP TC 004, UL ANSI/AAMI ES60601-1(3.1 version), CAN/CSA-C22 3" Edition approved ; Design								
STANDARDS	refer to EN60335-1	, LAO 11 10 004, C	LANGIAANII LOOGOOT-1(3	.1 Version, OAIVOOA-022	. 5 Lullion approved , Design				
ION LEVEL	Primary-Secondary: 2xM	OPP							
AND VOLTAGE	I/P-O/P:4KVAC								
ION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
ION RESISTANCE					1411.4				
					31 / NOTE				
	Conducted								
IISSION	Radiated		EN55011 (CISPR11)	Class B					
	Harmonic Current		EN61000-3-2	Class A	Class A				
	Voltage Flicker	i	EN61000-3-3						
EMC (Note 9) EMC IMMUNITY	-	1							
		T.	Ctandard	Tooklove	al / Nata				
	ESD		EN61000-4-2	Level 4, 1	5KV air ; Level 4, 8KV contact				
	RF field suscentibility		EN61000-4-3	Level 3, 1	Level 3, 10V/m(80MHz~2.7GHz)				
	Kr lield susceptibility		L1401000-4-0	Table 9, 9	Table 9, 9~28V/m(385MHz~5.78GHz) Level 3, 2KV				
	EFT bursts		EN61000-4-4	Level 3, 2					
	Surge susceptibility		EN61000-4-5	Level 3, 1	Level 3, 1KV/Line-Line				
	Conducted susceptibility		FN61000-4-6	Level 3 1	Level 3, 10V				
MTBF	Magnetic lield illillidility		L1401000-4-0		100% dip 1 periods, 30% dip 25 periods				
	Voltage dip, interruption	۱	EN61000-4-11		r perioas, 30% aip 25 perioas erruptions 250 periods				
	4700 F141 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100°C)		100 /0 III10	siruptions 200 periods				
SION	42*22.3*20.5mm (L*W*H) or 1.65"*0.88"0.80" inch								
G	0.018Kg; 270pcs/5.8Kg/	0.97CUFT							
ninimum load required. 6 Duty cycle maximum de & noise are measur rance : includes set up ting may be needed u	within every 30 seconds. ed at 20MHz of bandwidth tolerance, line regulation nder low input voltages. Ped from primary input to Lerating of 3.5°C/1000m welered a component which guidance on how to performance.	Average output pon by using a 12" two and load regulation please check the drop output. The fanless models will be installed into the property of the property	ower should not exceed the visted pair-wire terminated in. erating curve for more detall and of 5°C/1000m with fair to a final equipment. The file	e rated power with a 0.1μ f & 47μ f paralle ills. In models for operating altinate equipment must be re-	itude higher than 2000m(650				
M ani	UNITY DN Tameters NOT special nimum load required. Duty cycle maximum & noise are measur. Ing may be needed u Incurrent was measur. Includes set up ing may be needed u Incurrent was measur. Includes one of the control of the cont	Harmonic Current Voltage Flicker EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibility Voltage dip, interruption 1799.5Khrs min. MIL- ON 42*22.3*20.5mm (L*W*H 0.018Kg; 270pcs/5.8Kg/h rameters NOT specially mentioned are measurent in the control of the con	Conducted Radiated Harmonic Current Voltage Flicker EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibility Magnetic field immunity Voltage dip, interruption 1799.5Khrs min. MIL-HDBK-217F (25°C) 1799.5Khrs min. MIL-HDBK-217F (25°C)	Conducted EN55011 (CISPR11) Radiated EN55011 (CISPR11) Harmonic Current EN61000-3-2 Voltage Flicker EN61000-3-3 EN60601-1-2 Parameter Standard ESD EN61000-4-2 RF field susceptibility EN61000-4-3 EFT bursts EN61000-4-4 Surge susceptibility EN61000-4-5 Conducted susceptibility EN61000-4-6 Magnetic field immunity EN61000-4-8 Voltage dip, interruption EN61000-4-11 1799.5Khrs min. MIL-HDBK-217F (25°C) ON 42*22.3*20.5mm (L*W*H) or 1.65**0.88*0.80" inch 0.018Kg; 270pcs/5.8Kg/0.97CUFT rameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of a nimum load required. Duty cycle maximum within every 30 seconds. Average output power should not exceed the 2 a noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated ince: includes set up tolerance, line regulation and load regulation. ng may be needed under low input voltages. Please check the derating curve for more detail current was measured from primary input to DC output. Imbient temperature derating of 3.5°C/1000m with failess models and of 5°C/1000m with failes were supply is considered a component which will be installed into a final equipment. The final part of the constant of	Conducted EN55011 (CISPR11) Class B Radiated EN55011 (CISPR11) Class B Harmonic Current EN61000-3-2 Class A Voltage Flicker EN61000-3-2 Class A Voltage Flicker EN61000-3-3 EN60601-1-2 Parameter Standard Test Leve ESD EN61000-4-2 Level 4, 1 RF field susceptibility EN61000-4-3 Table 9, 9 EFT bursts EN61000-4-4 Level 3, 2 Surge susceptibility EN61000-4-5 Level 3, 1 Conducted susceptibility EN61000-4-6 Level 3, 1 Magnetic field immunity EN61000-4-8 Level 4, 3 Voltage dip, interruption EN61000-4-11 100% dip 1799.5Khrs min. MIL-HDBK-217F (25°C) DN 42°22.3°20.5mm (L*W*H) or 1.65°*0.88°0.80" inch 1799.5Khrs min. will-HDBK-217F (25°C) Tameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Inimum load required. Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power of a noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 µf & 47µf parallelince: includes set up tolerance, line regulation and load regulation. Ing may be needed under low input voltages. Please check the derating curve for more details.				

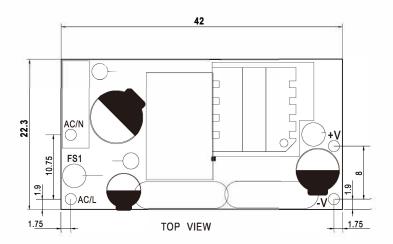


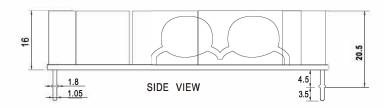




■ Mechanical Specification

Unit: mm





■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html