



















■ Features

- 1.65"x0.88" compact size
- Medical safety approved (2 x MOPP) accroding 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
- Protections:
 Short circuit / Overload / Over voltage / Over temperature
- No minimum load required
- Typical lifetime > 52K hours
- · 3 years warranty

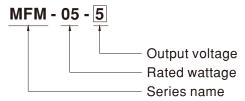
Applications

- · 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 $80\sim264$ VAC, 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





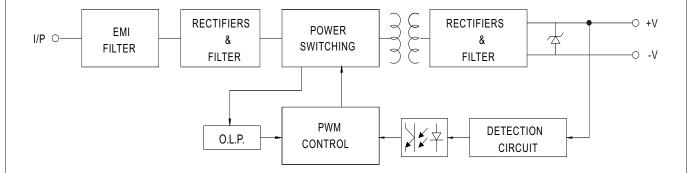
SPECIFICATION

	MFM-05-3.3	MFM-05-5	MFM-05-12	MFM-05-15	MFM-05-24	
DC VOLTAGE	3.3V	5V	12V	15V	24V	
		-			0.23A	
					0 ~ 0.23A	
					0.25A	
					5.5W	
. ,		5.5W	5.5W	5.4W	6W	
RIPPLE & NOISE (max.) Note.4	100mVp-p	100mVp-p	150mVp-p	150mVp-p	180mVp-p	
VOLTAGE TOLERANCE Note.5	±2.5%	±2.5%	±2.5%	±2.5%	±2.5%	
		±0.3%	±0.3%	±0.3%	±0.3%	
					±0.5%	
					20.070	
·	·					
HOLD UP TIME (Typ.)	40ms/230VAC 12ms/115VAC at full load					
VOLTAGE RANGE Note.6	80 ~ 264VAC					
FREQUENCY RANGE	47 ~ 440Hz					
EFFICIENCY (Typ.)	74%	80%	80%	81%	82%	
, , ,						
() . ,	COLD START 25A/115VAC 45A/230VAC					
() ,						
LEAKAGE CURRENT (max.) Note.7	Touch current <80μA/264VAC					
OVERLOAD PROTECTION OVER VOLTAGE	110% ~ 180% rated output power					
	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
	,, , , , , , , , , , , , , , , , , , ,				27.6 ~ 32.4V	
				17.0 20.00	21.0 02.7V	
OVER TEMPERATURE		-	automatically after tem	nperature goes down		
WORKING TEMP.	-40 ~ +85°C (Refer to "Derating Curve")					
WORKING HUMIDITY	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes					
STORAGE TEMP., HUMIDITY						
·						
VIBRATION						
OPERATING ALTITUDE Note.8	5000 meters					
SAFETY STANDARDS	IEC60601-1, EN60601-1, UL ANSI/AAMI ES60601-1(3.1 version), CAN/CSA-C22 3 rd Edition approved; Design refer to EN6033 Primary-Secondary: 2xMOPP I/P-O/P:4KVAC					
ISOLATION LEVEL						
EMC EMISSION SAFETY & EMC (Note 9)					val / Nata	
					Test Level / Note	
		EN55	,			
	Radiated	EN55	EN55011 (CISPR11)		Class B	
	Harmonic Current	EN61	EN61000-3-2		Class A	
	Voltage Flicker EN61		000-3-3			
		Ctone	doud	Toot Lo	vol / Nata	
	ESD	EN61	000-4-2	Level 4,	15KV air ; Level 4, 8KV contac	
	DE field susceptibility	EN61	EN61000-4-3		Level 3, 10V/m(80MHz~2.7GHz)	
	ra neid susceptibility	LIVOI			Table 9, 9~28V/m(385MHz~5.78GHz)	
EMC IMMUNITY	EFT bursts	EN61	EN61000-4-4		Level 3, 2KV	
	Surge susceptibility	EN61	EN61000-4-5		Level 3, 1KV/Line-Line	
	0 1 7				Level 3, 10V	
	· ·					
	Magnetic held illillidinty	EINOI	EN01000-4-0			
	Voltage dip, interruption		EN61000-4-11		100% dip 1 periods, 30% dip 25 periods 100% interruptions 250 periods	
MTBF	1799.5Khrs min. MIL-HDBK-217F (25°C)					
DIMENSION	42*22.3*20.5mm (L*W*H) or 1.65"*0.88"0.80" inch 0.018Kg: 270pcs/5.8Kg/0.97CUFT					
PACKING						
	0, 1					
No minimum load required. 33% Duty cycle maximum Ripple & noise are measure Tolerance : includes set up	within every 30 seconds. and at 20MHz of bandwidth	Average output power so by using a 12" twisted and load regulation.	should not exceed the pair-wire terminated v	rated power vith a 0.1 μ f & 47 μ f para	allel capacitor.	
	RATED CURRENT CURRENT RANGE PEAK CURRENT RATED POWER PEAK LOAD (10sec.) Note.3 RIPPLE & NOISE (max.) Note.4 VOLTAGE TOLERANCE Note.5 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT (max.) Note.7 OVERLOAD OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT SOLDERING TEMPERATURE VIBRATION OPERATING ALTITUDE Note.8 SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION MTBF DIMENSION PACKING 1. All parameters NOT special 2. No minimum load required. 3. 33% Duty cycle maximum	RATED CURRENT	RATED CURRENT 1.25A	Name	RATED CURRENT 1.25A	



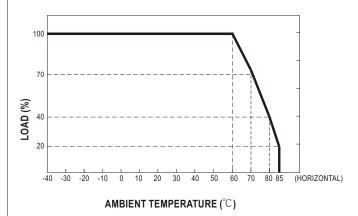
■ Block Diagram

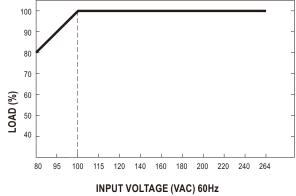
fosc: 100KHz



■ Derating Curve

■ Output Derating VS Input Voltage

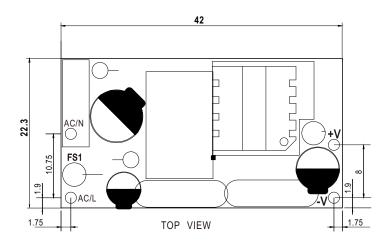


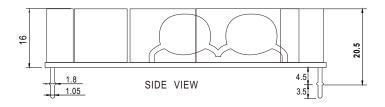




■ Mechanical Specification

Unit: mm





■ Installation Manual

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

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