



(MPM-65)



(MPM-65-xxST)

















Features

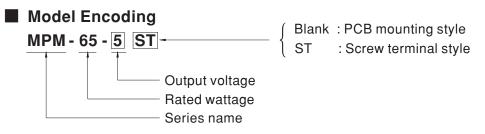
- 3.43"x2.05" compact size
- PCB chassis or screw terminal mounting version
- · Medical safety approved (2 x MOPP) according to ANSI/AAMI ES60601-1 and IEC/EN60601-1
- Suitable for BF application with appropriate system consideration
- No load power consumption<0.1W
- Extremely low leakage current
- Wide operating temp. range -30 ~ +80°C
- · EMI Class B without additional components
- Isolation Class II
- Protections: Short circuit / Overload / Over voltage
- No minimum load required
- Operating altitude up to 4000 meters (Note.7)
- 71W peak(10 sec.)
- 3 years warranty

Applications

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

Description

MPM-65 is a 65W high density and small size (87x52x29.5mm) AC/DC PCB-mount type medical grade power supply. It features the operation for 80~264VAC, a low no load power consumption less than 0.1W, a high efficiency up to 93%, Class II (no FG) double insulation, outstanding dissipation, 2~5G anti-vibration by model, high EMC performance, 4KVAC isolation, etc. The design observes IEC/EN60601-1 and ANSI/AAMI ES60601-1 version three with 2 x MOPP level and ultra-low leakage current (<100µA). It is very suitable for BF (patient contact) type medical device or relevant equipment.



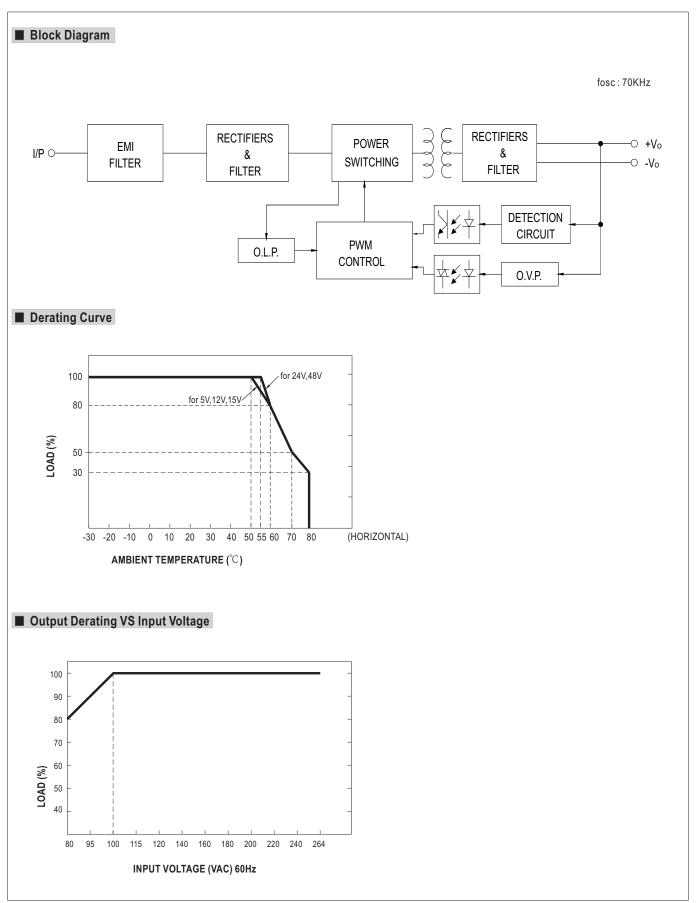
File Name: MPM-65-SPEC 2020-01-15



SPECIFICATION

		MPM-65-5	MPM-65-12	MPM-65-15	MPM-65-24	MPM-65-48	
DC VOLTA	GE	5V	12V	15V	24V	48V	
OUDDENT	Peak(10 sec.)	11A	5.96A	4.77A	2.98A	1.49A	
CURRENT	Convection	10A	5.42A	4.33A	2.71A	1.36A	
RATED	Peak(10 sec.)Note.2	55W	71.5W	71.6W	71.5W	71.5W	
POWER	Convection	50W	65W	65W	65W	65.3W	
RIPPLE & N	IOISE (max.) Note.3		1			240mVp-p	
VOLTAGE TOLERANCE Note.4						±2.0%	
			111			±0.5%	
						±0.5%	
		,	1		_ ±0.570	±0.570	
	() ()						
-, -			T	1	1	1	
EFFICIENC	Ү (Тур.)		1	92.5%	93%	92%	
			30VAC				
		COLD START 30A/115VAC 65A/230VAC					
LEAKAGE CURRENT (max.) Note.6							
OVERLOAD		115% ~ 135% rated output power					
		Protection type: Hiccup mode, recovers automatically after fault condition is removed					
		5.3 ~ 7.2V	12.6 ~ 16.2V	15.8 ~ 20.3V	25.2 ~ 32.4V	50.4 ~ 64.8V	
OVER VOL	IAGE	Protection type : Shut do	own o/p voltage, re-po	ower on to recover			
OVER TEMPERATURE		Protection type : Shut down o/p voltage, re-power on to recover					
WORKING	TEMP.	-30 ~ +80°C (Refer to "Derating Curve")					
WORKING HUMIDITY		, ,					
		-40 ~ +85°C					
OOLDERIN	O ILIMI LIKATORE						
VIBRATION		· · ·					
ODEDATIN	O ALTITUDE N						
OPERATIN	GALIIIUDE Note./						
SAFETY ST	ANDARDS						
ISOLATION	LEVEL						
			0VDC / 25°C / 70% R	РН			
IOOLATION	INLUIDIANUL				Test	Level / Note	
EMC EMICS	AC EMISSION			, ,			
EMC EMISSION				, ,		-	
					Clas	Class A	
		-		=N61000-3-3			
		EN60601-1-2					
		Parameter		Standard	Test	Level / Note	
		ESD	E	EN61000-4-2	Leve	el 4, 15KV air ; Level 4, 8KV contact	
		RF field suscentibility	E	EN61000-4-3		el 3, 10V/m(80MHz~2.7GHz)	
					Table	e 9, 9~28V/m(385MHz~5.78GHz)	
EMC IMMII	NITY	EFT bursts	E	EN61000-4-4		el 3, 2KV	
LINIO IIIIIIIO	NII I	Surge susceptibility	E	EN61000-4-5	Leve	el 3, 1KV/Line-Line	
		Conducted susceptibility	ty E	EN61000-4-6	Leve	el 3, 10V	
		Magnetic field immunity	, E	EN61000-4-8	Leve	el 4, 30A/m	
		Voltage dip, interruption	1 E	EN61000-4-11		% dip 0.5 periods, 30% dip 25 perio % interruptions 250 periods	
		563.44Khrs min. MIL-HDBK-217F (25		1530.14Khrs	min. Telcordia TR	R/SR-332 (Bellcore) (25°C)	
MTBF		303.44KIIIS IIIIII. WIIL	11DBR 2111 (20 °),				
MTBF DIMENSION	N	PCB mounting style : 87	, ,,) Screw termina	al style : 109*52*33.	5mm (L*W*H)	
	N	PCB mounting style : 87	*52*29.5mm (L*W*H)	Screw terminal Screw		,	
	CURRENT RATED POWER RIPPLE & M VOLTAGE I LINE REGUL LOAD REG SETUP, RIS HOLD UP T VOLTAGE I FREQUENC EFFICIENC AC CURRE INRUSH CU LEAKAGE C OVER LOAD OVER VOL' OVER TEM WORKING WORKING STORAGE TEMP. COE SOLDERIN VIBRATION OPERATIN' SAFETY ST ISOLATION WITHSTAN ISOLATION	CURRENT RATED Peak(10 sec.)Note.2 POWER Convection RIPPLE & NOISE (max.) Note.3 VOLTAGE TOLERANCE Note.4 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT (max.) Note.6 OVER LOAD OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. TEMP. COEFFICIENT SOLDERING TEMPERATURE VIBRATION	CURRENT	CURRENT	CURRENT Convection 10A	CURRENT Peak(10 sec.)	



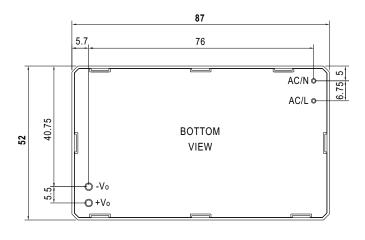


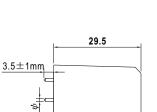
Unit:mm



■ Mechanical Specification

• PCB mounting style (MPM-65)

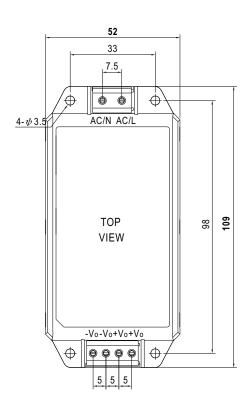


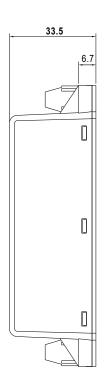


Case No.IRM60

AC/L, AC/N P/N diameter: 1 ψ +Vo, -Vo P/N diameter:2 ψ

Screw terminal style (MPM-65-xxST)





■ Installation Manual

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