

PM65 Series

50-65 WATTS SINGLE & MULTIPLE OUTPUT AC/DC MEDICAL

Features

- **Low safety ground leakage current.**
- **Wide input range 85 to 264Vac.**
- **Input surge current protection.**
- **Overvoltage protection.**
- **Overcurrent protection.**
- **Open PCB construction.**
- **100% burn-in at full rated load.**



Specifications

INPUT

Input Voltage	85–264Vac wide input
Frequency	47Hz–63Hz
Input Current	1.6A (rms) for 115Vac. 1.0A (rms) for 230Vac.
Leakage current	90µA max. @ 115Vac. 60Hz. 150µA max. @ 230Vac. 50Hz.
Isolation	Input – Output: 4000VAC Input – Ground: 1500VAC Output – Ground: 500VAC
Inrush Current	15A @ 115V, 30A @ 230V

OUTPUT

Output Voltage	See table
Output Voltage Adjustment	V1 ±10%
Output Current	See table
Ripple & Noise	1% peak to peak
Line Regulation	±0.5% maximum at full load.
Load Regulation	See table
Transient Response	Max. deviation 4% recovering to 1% within 500µs after 25% load charge
Overvoltage Protection	Provided on V1 only. Set at 110%–132% of nominal
Overcurrent Protection	All outputs protected for short circuit conditions
Temperature Coefficient	All outputs ±0.04% per °C
Holdup Time	Typically 10ms at 110VAC

OPERATING

MTBF	400,000 hrs @ 25°C
Efficiency	65%–70%

ENVIRONMENTAL

Operating Temperature	0°C to 70°C
Derating	Derate to 50% at 70°C
Storage Temperature	-40°C to 85°C
Relative Humidity	5%–95% non-condensing

STANDARDS AND APPROVALS

Safety standards	UL2601-1, CSA C22.2, TUV EN60601-1
C-Tick	AS/NZS CISPR11 Group 1, Class A
EMC standards	EN60601-1-2: 2001, EN61000-3-2, -3, EN61000-4-2, -3, -4, -5, -6, -8, -11
EMI standards	EN55011 Class B, FCC Class B, VCCI Class B

MECHANICAL

Dimensions	152.5x89.0x47.5mm
Weight	400grams.

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Selection Table

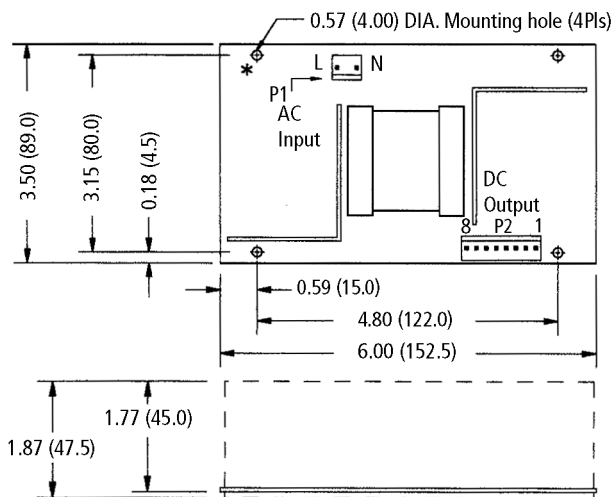
MODEL	OUTPUT #1				OUTPUT #2				OUTPUT #3				OUTPUT #4				MAX.	
	NUMBER (1)(2)	VNOM	IMIN	IMAX	TOL	VNOM	IMIN	IMAX	TOL	VNOM	IMIN	IMAX	TOL	VNOM	IMIN	IMAX	TOL	POWER
PM65-10A		5V	0A	10A	2%													50W
PM65-12A		12V	0A	5.5A	1%													65W
PM65-13A		15V	0A	4.5A	1%													65W
PM65-14A		24V	0A	3.0A	1%													65W
PM65-16A		30V	0A	2.5A	1%													65W
PM65-17A		36V	0A	2.2A	1%													65W
PM65-23A		+5V	1A	6.0A	3%	+12V	0.5A	3.0A	5%									65W
PM65-24A		+5V	1A	6.0A	3%	+15V	0.4A	3.0A	5%									65W
PM65-25A		+5V	1A	6.0A	3%	+24V	0.3A	2.0A	5%									65W
PM65-30A		+5V	1A	6.0A	3%	+12V	0.5A	3.0A	5%	-5V	0.1A	0.5A	10%					65W
PM65-31A		+5V	1A	6.0A	3%	+12V	0.5A	3.0A	5%	-12V	0.1A	0.5A	10%					65W
PM65-32A		+5V	1A	6.0A	3%	+15V	0.4A	3.0A	5%	-15V	0.1A	0.5A	10%					65W
PM65-33A		+5V	1A	6.0A	3%	+15V	0.4A	3.0A	5%	-12V	0.1A	0.5A	10%					65W
PM65-39A		+5V	1A	6.0A	3%	+24V	0.3A	2.0A	5%	-12V	0.1A	0.5A	10%					65W
PM65-40A		+5V	1A	6.0A	3%	+12V	0.5A	3.0A	5%	-12V	0.1A	0.5A	10%	-5V	0.1A	0.5A	10%	65W

NOTES: (1) All multiple output models may be operated at no-load without damage. At no-load, output voltage tolerance increases to 10%.
 (2) Safety agency approvals are for the above listed models in PCB mounted format. To order a model with a metallic L-bracket or box, change suffix "A" to "B" for L-bracket format, to "C" for enclosed format

Pin Chart

MODEL/PIN	1	2	3	4	5	6	7	8
PM65-10A	PM65-12A	Output 1	Output 1	Output 1	Output 1	Return	Return	Return
PM65-13A	PM65-14A	Output 1	Output 1	Output 1	Output 1	Return	Return	Return
PM65-16A	PM65-17A	Output 1	Output 1	Output 1	Output 1	Return	Return	Return
PM65-23A	PM65-24A	Output 1	Output 1	Common	Common	Output 2	Output 2	N.C.
PM65-25A		Output 1	Output 1	Return	Return	Output 2	Output 2	N.C.
PM65-30AL	PM65-31AL	Output 1	Output 1	Common	Common	Output 2	Output 2	Output 3
PM65-32AL	PM65-33AL	Output 1	Output 1	Return	Return	Output 2	Output 2	Output 3
PM65-39AL		Output 1	Output 1	Return	Return	Output 2	Output 2	Output 3
PM65-40A		Output 1	Output 1	Common	Common	Output 2	Output 2	Output 3
		Output 1	Output 1	Return	Return	Output 2	Output 2	Output 4

Technical Illustration



NOTES

1. Dimensions shown in inches (mm)
2. Tolerance 0.02 (0.5) max
3. Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal
4. Output connector mates with Molex housing 09-50-3081 and Molex 2878 series crimp terminal
5. Weight: 400 grams (PCB format)
6. The "*" marked mounting hole is for the system grounding through a metallic stand-off to the system chassis