

# PM25A Series

25-28 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	0.7A (rms) for 115Vac. 0.4A (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	10A @ 115V, 25A @ 230V

### OUTPUT

Output Voltage	See table.
Output Voltage Adjustment	V1 only ±10%.
Output Current	See table.
Ripple & Noise	1% peak to peak max.
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	500,000 hrs @ 25°C
Efficiency	68%–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 EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11
EMI standards	EN55011 Class B, FCC Class B, VCCI Class B

### MECHANICAL

Dimensions	107.95x63.5x24.38mm
Weight	Single output model: 163grams. Multi-output model: 175 grams.

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## Selection Table

MODEL NUMBER	OUTPUT #1				OUTPUT #2				OUTPUT #3				MAX. OUTPUT POWER
	VNOM	IMIN	IMAX	TOL	VNOM	IMIN	IMAX	TOL	VNOM	IMIN	IMAX	TOL	
PM25-10A	5.1V	0A	5.5A	2%									28W
PM25-12A	12V	0A	2.3A	1%									28W
PM25-13A	15V	0A	1.9A	1%									28W
PM25-14A	24V	0A	1.2A	1%									28W
PM25-15A	28V	0A	1.0A	1%									28W
PM25-23A	+5.1V	0A	2.5A	3%	+12V	0.2A	1.5A	5%					25W
PM25-25A	+5.1V	0A	2.5A	3%	+24V	0.1A	0.8A	5%					25W
PM25-31A	+5.1V	0A	2.5A	3%	+12V	0.2A	1.5A	5%	-12V	0.05A	0.2A	4%	25W
PM25-32A	+5.1V	0A	2.5A	3%	+15V	0.1A	1.0A	5%	-15V	0.05A	0.2A	4%	25W
PM25-39A	+5.1V	0.3A	2.5A	3%	+24V	0.1A	0.8A	5%	-12V	0.05A	0.2A	4%	25W

NOTES: (1) All multiple output models may be operated at no-load without damage. At no -load, output voltage tolerance increases to 10%.  
 (2) Ripple and noise: Peak to peak with 20MHz bandwidth and 10µF in parallel with a 0.1µF capacitor at rated line voltage and load range.  
 (3) 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

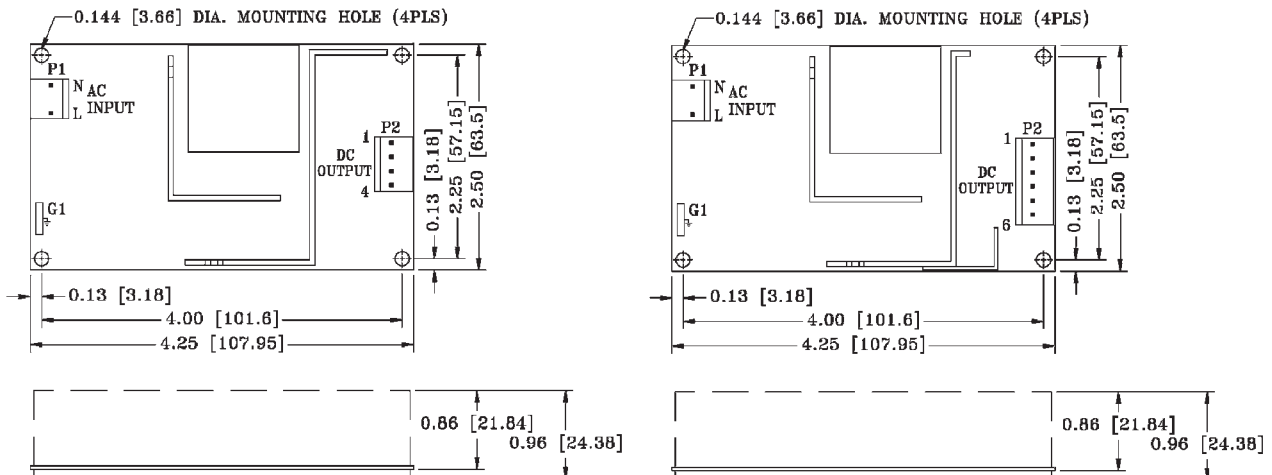
### SINGLE OUTPUT MODELS

MODEL/PIN	1	2	3	4
PM25-10A				
PM25-12A				
PM25-13A	Return	Return	Output 1	Output 1
PM25-14A				
PM25-15A				

### MULTIPLE OUTPUT MODELS

MODEL/PIN	1	2	3	4	5	6
PM25-23A	Output 2	Output 1	Output 1	Common Return	Common Return	N.C.
PM25-25A						
PM25-31A	Output 2	Output 1	Output 1	Common Return	Common Return	Output 3
PM25-32A						
PM25-39A						

## Technical Illustration



**SINGLE OUTPUT**

**MULTIPLE OUTPUT**