

PM25A Series

25-28 WATTS - AC/DC SINGLE & MULTIPLE OUTPUT

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



MEDICAL

SPECIFICATIONS

INPUT	
Input voltage	85–264Vac
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 @ 25°C cold start

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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MEDICAL

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:

- Safety agency approvals are for the above listed models in PCB form. To order a model with a metallic L-bracket or box, change suffix "A" to "B" for L-bracket form, to "C" for enclosed form, e.g. PM25-31C.
- All models may be operated at no-load without damage. At no-load, output voltage tolerance increases to $\pm 10\%$.
- Ripple and noise is maximum peak-to-peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and

PIN CHART

SINGLE OUTPUT MODELS							
MODEL	PIN	1	2	3	4	5	6
PM25-10A	PM25-12A	Return	Return	Output 1	Output 1		
PM25-13A	PM25-14A						
PM25-15A							
MULTIPLE OUTPUT MODELS							
PM25-23A	PM25-25A	Output 2	Output 1	Output 1	Common Return	Common Return	N.C.
PM25-31A	PM25-32A	Output 2	Output 1	Output 1	Common Return	Common Return	Output 3
PM25-39A							

MECHANICAL SPECIFICATIONS

