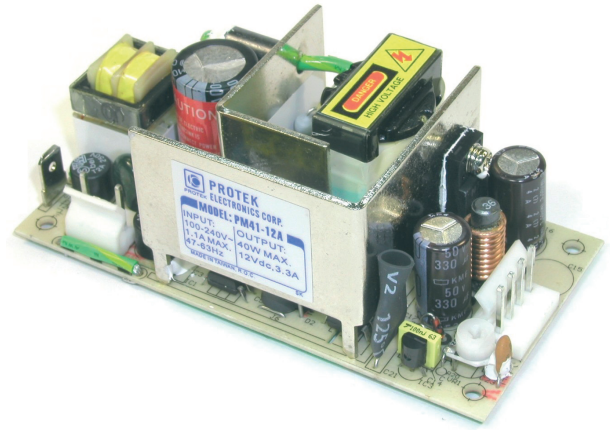


# PM41 Series

30-40 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.**
- **Compact, open PCB construction.**
- **100% burn-in at full rated load.**



## Specifications

### INPUT

Input Voltage	85–264Vac wide input
Frequency	47Hz–400Hz
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	12A @ 115V, 24A @ 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 change
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	600,000 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	101.6x50.8x38.1mm
Weight	Single output model: 190grams. Multi-output model: 175 grams.

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## Selection Table

MODEL NUMBER	VNOM	OUTPUT #1			MAX.
		IMIN	IMAX	TOL	OUTPUT POWER
PM41-10A	5.1V	0A	6.0A	2%	30W
PM41-12A	12V	0A	3.3A	2%	40W
PM41-13A	15V	0A	2.7A	2%	40W
PM41-13-1A	18V	0A	2.3A	2%	40W
PM41-14A	24V	0A	1.7A	2%	40W
PM41-15A	28V	0A	1.4A	2%	40W

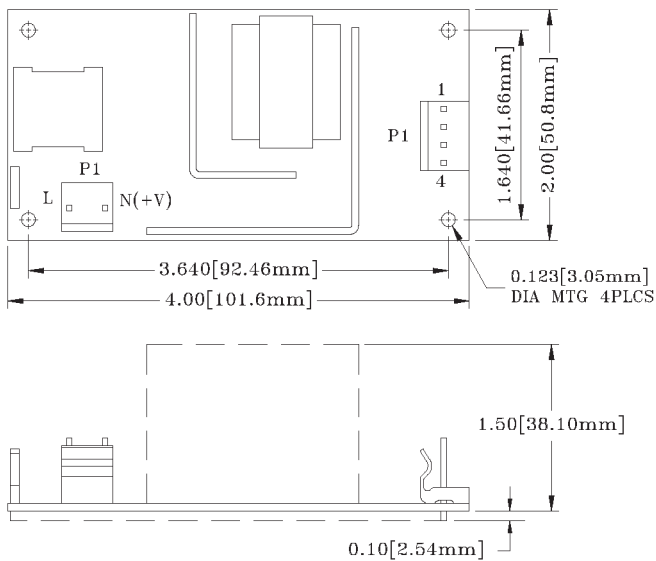
NOTES: Ripple and noise: Peak to Peak with 20 MHz bandwidth and 10 $\mu$ F in parallel with a 0.1 $\mu$ F capacitor at rated line voltage and load ranges.

## Pin Chart

### SINGLE OUTPUT MODELS

MODEL/PIN	1	2	3	4
PM41-10A	PM41-13-1A			
PM41-12A	PM41-14A	Output	Output	Return
PM41-13A	PM41-15A			

## Technical Illustration



### NOTES:

1. Dimensions shown in inch [mm].
2. Tolerance 0.03 [0.76] maximum.
3. Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3040 and Molex 2878 series crimp terminal.
5. Weight : 190 grams (PCB format).