

## M1 SERIES PN6CU-XXXXE 1KV ISOLATED 1W UNREGULATED SINGLE OUTPUT SIP7

### Available Inputs:

5, 12, 24 and 48 VDC

### Available Outputs:

3.3, 5, 7.2, 12, 15 and 18 VDC

Other specifications please enquire.

### Electrical Specifications

(Typical at + 25° C, nominal input voltage, rated output current unless otherwise specified)

#### Input Specifications

Voltage range +/- 10 %  
Filter Capacitors

#### Isolation Specifications

Rated voltage 1000 VDC  
Leakage current 1 mA  
Resistance 10<sup>9</sup> Ohm  
Capacitance 60 pF typ.

#### Output Specifications

Voltage accuracy +/- 5 %, max.  
Ripple and noise (at 20 MHz BW) 75 mV p-p, max.  
Short circuit protection Momentary  
Line voltage regulation +/- 1,2 % / 1,0 % of Vin  
Load voltage regulation +/- 8 %, load = 20 ~ 100 %  
Temperature coefficient +/- 0,02 % / °C

#### General Specifications

Efficiency 70 % to 85 %  
Switching frequency 125 KHz, typ.

#### Environmental Specifications

Operating temperature (ambient) - 40° C to + 85° C  
Storage temperature - 55 °C to + 125 °C  
Derating See graph  
Humidity Up to 90 %, non condensing  
Cooling Free air convection

#### Physical Characteristics

Dimensions SIP 19,50 x 6,00 x 9,50 mm  
0,76 x 0,24 x 0,37 inches  
Weight 2 g, 3 g for the 48 VDC variants  
Case material Non conductive black plastic

### Samples of Partnumbers

PART NO.	INPUT VOLTAGE (VDC)	INPUT CURRENT NO LOAD	INPUT CURRENT FULL LOAD	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (max. mA)	EFFICIENCY FULL LOAD (% TYP.)
PN6CU-0505E	5	16	266	5	200	75
PN6CU-0512E	5	18	254	12	84	79
PN6CU-1205E	12	11	119	5	200	70
PN6CU-1212E	12	10	104	12	84	80
PN6CU-243R3E	24	5	56	3,3	303	74
PN6CU-2405E	24	6	55	5	200	76
PN6CU-2412E	24	7	54	12	84	77
PN6CU-4805E	48	5	31	5	200	67
PN6CU-4812E	48	6	28	12	84	74



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