

**M1 SERIES P6CU-XXXXZ 1KV ISOLATED 1W UNREGULATED DUAL 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  $10^9$  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  $V_{in}$   
 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

**Examples 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.)
P6CU-0505Z	5	16	281	+/- 5	+/- 100	71
P6CU-0512Z	5	18	253	+/- 12	+/- 42	79
P6CU-0515Z	5	20	250	+/- 15	+/- 34	80
P6CU-1205Z	12	11	119	+/- 5	+/- 100	70
P6CU-1212Z	12	10	104	+/- 12	+/- 42	80
P6CU-243R3Z	24	5	56	+/- 3,3	+/- 150	74
P6CU-2405Z	24	6	55	+/- 5	+/- 100	76
P6CU-2412Z	24	8	55	+/- 12	+/- 42	76

