

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

10⁹ 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

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

