

M1 SERIES P6CU-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 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

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.)
P6CU-0505E	5	16	266	5	200	75
P6CU-0512E	5	18	254	12	84	79
P6CU-1205E	12	11	119	5	200	70
P6CU-1212E	12	10	104	12	84	80
P6CU-243R3E	24	5	56	3,3	303	74
P6CU-2405E	24	6	55	5	200	76
P6CU-2412E	24	7	54	12	84	77
P6CU-4805E	48	5	31	5	200	67
P6CU-4812E	48	6	28	12	84	74

