

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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PDM30 Series



- CEC2008 & EISA2007 Compliant ≥9 V
- Worldwide Medical Approvals
- Class II Construction
- Single Outputs from 5 V to 24 V
- High Efficiency
- Operation to +60 °C
- 3 Year Warranty

Specification

Input

Input Voltage

Input Frequency

Input Current Inrush Current

Power Factor

Input Protection

- 80-264 VAC
- 47-63 Hz
- 0.6 A rms max
- 50 A max at 264 VAC, cold start 25 °C
- Meets EN61000-3-2, Class A
- Fitted with a T2 A/250 VAC fuse in live line

Output

Output Voltage

Initial Set Accuracy

Minimum Load

Start Up Delay

Start Up Rise Time

Hold Up Time

Line Regulation

Load Regulation

Transient Response

Ripple & Noise Overvoltage Protection • See table

Overload Protection

Temperature

Coefficient

- See table
- ±2% set at 60% load
- · No mimimum load required
- 3 s max
- 16 ms typical at 115 VAC
- ±1%
- · See tables
- 5% max deviation recovering to within 1% within 500 µs for 50% load change
- 1% max, 20 MHz bandwidth see note 1
- 120-150%
- Short Circuit Protection Trip & restart (hiccup mode), auto-recovery
 - ±0.05%/°C

General

Efficiency

Isolation

Switching Frequency

Power Density

MTBF

- 82% minimum
- 4000 VAC Input to Output, 2 x MOPP
- 70 kHz typical
- 3 W/Inch³
- 300 kHrs to MIL-HDBK-217 at 25 °C, GB

Environmental

Operating Temperature • 0 °C to +60 °C (see derating curves)

Cooling

Operating Humidity

Storage Temperature

Operating Altitude

Vibration

Shock

- · Convection-cooled
- 5-95% non-condensing
- -20 °C to +85 °C
- 3000 m
- 5-500 Hz at 3 g for 10 mins on each axis
- 30 a with 18 ms half sine wave. 3 times on each axis

EMC & Safety

Emissions

Harmonic Currents

Voltage Flicker

ESD Immunity

Radiated Immunity

EFT/Burst

Surge

Conducted Immunity

Dips & Interruptions

Safety Approvals

- EN55011 Level B conducted & radiated
- EN61000-3-2, Class A
- EN61000-3-3
- EN61000-4-2 Level 3, Perf Criteria A
- EN61000-4-3 Level 2, Perf Criteria A
- EN61000-4-4, Level 3, Perf Criteria A • EN61000-4-5 Level 3, Perf Criteria A
- EN61000-4-6 Level 3, Perf Criteria A
- EN61000-4-11, 70% U_T for 500 ms, $40\%~U_{T}$ for 100 ms, ${<}5\%~U_{T}$ for 5000 ms
- Perf criteria A, B, B
- UL60601-1, EN60601-1, IEC60601-1, CE Mark



Models and Ratings

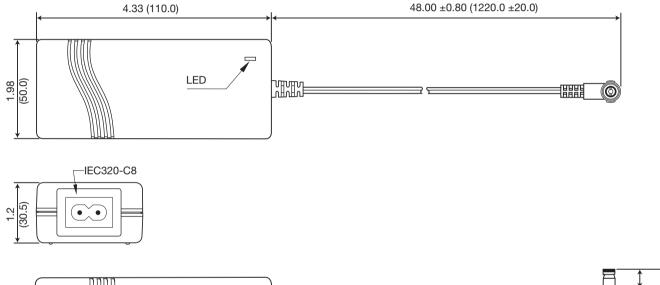


Output	Output	OVP	Efficiency	Regulation		Model
Voltage	Current	Range	Efficiency	Line ⁽²⁾	Load ⁽³⁾	Number
5 V	4.00 A	6.45-7.14 V	74%	±1%	±6%	PDM30US05
9 V	3.00 A	10.5-11.6 V	81%	±1%	±4%	PDM30US09
12 V	2.50 A	14.3-15.8 V	82%	±1%	±3%	PDM30US12
15 V	2.00 A	17.1-18.9 V	83%	±1%	±3%	PDM30US15
18 V	1.65 A	20.9-23.1 V	83%	±1%	±2%	PDM30US18
24 V	1.25 A	25.7-28.4 V	83%	±1%	±2%	PDM30US24

Notes

- 1. Ripple and Noise is measured using a 0.1 µF ceramic and 10 µF electrolytic capacitor, 20 MHz bandwidth.
- 2. Line regulation is measured from 100 VAC to 240 VAC with full load.
- 3. Load regulation is measured from 20% to 100% full load (60% ±40% full load).

Mechanical Details

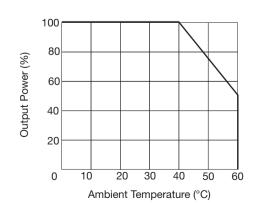


74.00 7.00

Output connector is right angle jack 0.22 x 0.10 x 0.47 (5.5 x 2.5 x 12.0), center postive. Weight: 0.49 lbs (220 g). Case tolerance: ± 0.02 (± 0.5) All dimensions in inches (mm).

Derating Curves –

5 V, 9 V & 12 V Models



15 V, 18 V & 24 V Models

