

Measures: 10.93 x 4.94 x 1.59"

DESCRIPTION

The PUB200/250/300/400 series of AC-DC switching power supplies are capable of delivering 200-400 watts of continuous power at convection cooling. The units are constructed on a printed circuit board with a metal enclosed format for mechanical support and heat sinking. They are specially designed for industrial applications.

FEATURES

- Single output industrial power supplies
- High efficiency
- 200-400W output at convection cooling
- Compliant with 55022 and FCC Class B
- Active PFC to meet IEC61000-3-2 Class A and D
- Protection against overvoltage, overcurrent and overtemperature
- RoHS Compliant

INPUT SPECIFICATIONS

Input voltage:	90-264 VAC
Input frequency:	47-63 Hz
Input current(typ.):	PUB200: 2.7 A/ 115 VAC, 1.35 A/ 230
	VAC
	PUB250: 3.3 A/ 115 VAC, 1.65 A/ 230
	VAC
Earth leakage current:	PUB300: 3.9 A/ 115 VAC, 1.95 A/ 230
	VAC
	PUB400: 4.9 A/ 115 VAC, 2.45 A/ 230
	VAC
	0.5 mA max. @ 264 VAC, 63 Hz

OUTPUT SPECIFICATIONS

Output voltage/current:	See rating chart.
Total output power:	See rating chart
Ripple and noise:	See rating chart
Overvoltage protection:	set at 115-145% of its nominal output voltage
Overcurrent protection:	Protected to short-circuit conditions
Temperature coefficient:	All outputs ±0.04% /°C maximum
Transient response:	Maximum excursion of 4% or better on all models, recovering to 1% of final value within 500 us after a 25% step load change

ENVIRONMENTAL SPECIFICATIONS

Operating temperature:-20C to +50CStorage temperature:-20Cto +85CRelative humidity:5% to 95% no

-20C to +50C -20Cto +85C 5% to 95% non-condensing

PUB200/250/300/400





SAFETY STANDARD APPROVAL



UL ES 60950-1, CSA C22.2 No. 60950-1 File No. E137410



TÜV EN 60950-1

GENERAL SPECIFICATIONS

Turn-on delay time: Hold-up time: Line regulation: Inrush current:	1 second maximum at 100 VAC 10 ms minimum at 110 VAC and full load ±0.5% maximum at full load 80 A @ 115 VAC or 160 A @ 230 VAC, at 25°C cold start
Withstand voltage:	3000 VAC from input to output, 1500 VAC from input to ground, 500 VAC from output to ground
MTBF:	100,000 hours minimum at full load and 25 $^\circ\!\mathrm{C}$ ambient, calculated per MIL-HDBK-217F
EMC Performance	
EN55022:	Class B conducted, class B radiated
FCC:	Class B conducted, class B radiated
VCCI:	Class B conducted, class B radiated
EN61000-3-2:	Harmonic distortion, class A and D
EN61000-3-3:	Line flicker
EN55024	
EN61000-4-2:	ESD, ±8 KV air and ±4 KV contact
EN61000-4-3:	Radiated immunity, 3 V/m
EN61000-4-4:	Fast transient/burst, ±1 KV
EN61000-4-5:	Surge, ±1 KV diff., ±2 KV com
EN61000-4-6:	Conducted immunity, 3 Vrms
EN61000-4-8:	Magnetic field immunity, 1 A/m
EN61000-4-11:	Voltage dip immunity, 30% reduction for 500 ms, >95% reduction for 10 ms





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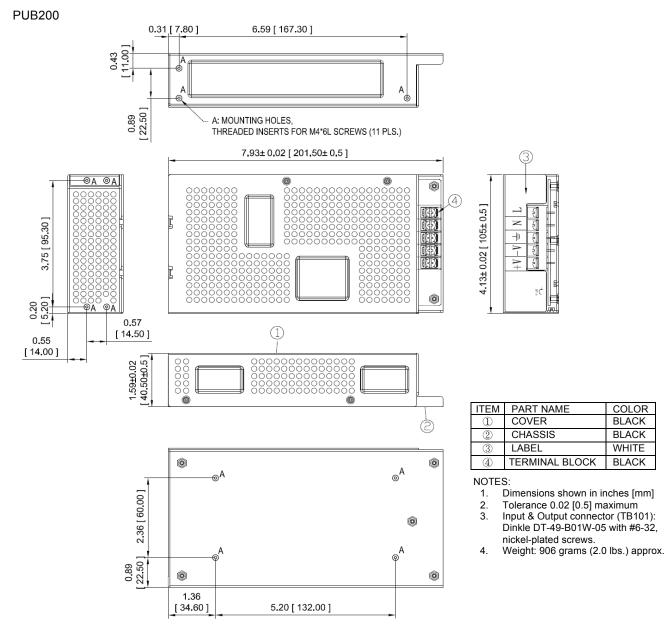
OUTPUT VOLTAGE/CURRENT RATING CHART

	Output						
Model	V1	Min. Current	Max. Current	Tol.	Ripple & Noise ⁽¹⁾	Max. Power	Efficiency (typical) @ 115/230 Vac
PUB200-12	12 V	0 A	16.67 A	±5%	200 mV	200 W	88 /90%
PUB200-14	24 V	0 A	8.33 A	±5%	200 mV	200 W	88 /90%
PUB250-12	12 V	0 A	20.84 A	±5%	200 mV	250 W	88 /90%
PUB250-14	24 V	0 A	10.42 A	±5%	240 mV	250 W	91 /93%
PUB300-14	24 V	0 A	12.50 A	±5%	240 mV	300 W	91 /93%
PUB400-14	24 V	0 A	16.67 A	±5%	240 mV	400 W	91 /93%

NOTES:

1. Ripple and noise is maximum peak-to-peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 10 μF tantalum capacitor in parallel with a 0.1 μF ceramic capacitor across the output.

MECHANICAL SPECIFICATIONS

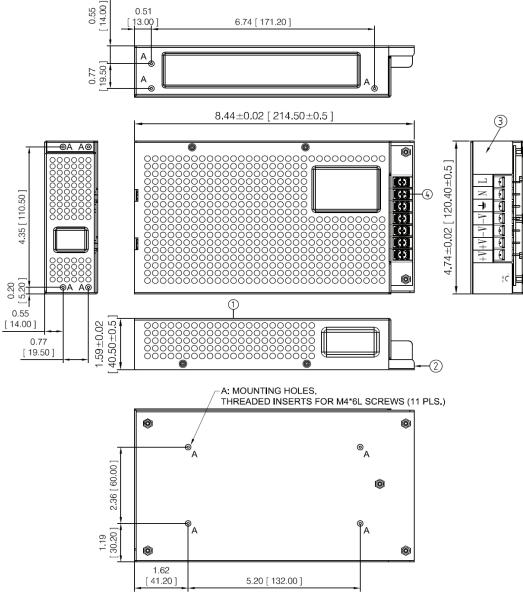


Specifications are subject to change without notice. It is responsibility of each customer to thoroughly test each product and part number under their unique parameters and environments to ensure a product will work properly an



PROTEK **PUB200 SERIES** 400 Watt Enclosed Power Supply Measures: 10.93 x 4.94 x 1.59"

PUB250/PUB300



PUB250

ITEM	PART NAME	COLOR		
1	COVER	ALUMINUM		
2	CHASSIS	ALUMINUM		
3	LABEL	WHITE		
4	TERMINAL BLOCK	BLACK		

NOTES:

- 1. Dimensions shown in inches [mm]
- 2. Tolerance 0.02 [0.5] maximum
- Input & Output connector (TB101): Dinkle DT-49-B01W-07 with #6-32, nickel-plated screws.
- 4. Weight: 920 grams (2.02 lbs.) approx.

PUB300

PART NAME	COLOR
COVER	BLACK
CHASSIS	BLACK
LABEL	WHITE
TERMINAL BLOCK	BLACK
	CHASSIS LABEL

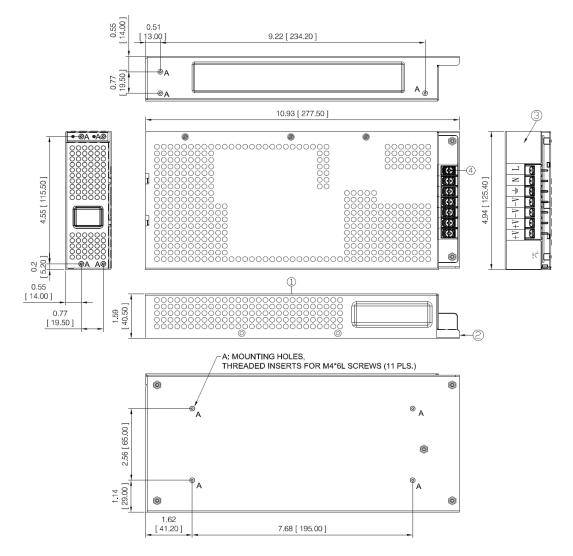
NOTES:

- 1. Dimensions shown in inches [mm]
- 2. Tolerance 0.02 [0.5] maximum
- Input & Output connector (TB101): Dinkle DT-49-B01W-07 with #6-32, nickel-plated screws.
- 4. Weight: 920 grams (2.02 lbs.) approx.



PROTEK **PUB200 SERIES** 400 Watt Enclosed Power Supply Measures: 10.93 x 4.94 x 1.59"

PUB400



ITEM	PART NAME	COLOR		
1	COVER	BLACK		
2	CHASSIS	BLACK		
3	LABEL	WHITE		
4	TERMINAL BLOCK	BLACK		

NOTES:

- 1.
- 2.
- Dimensions shown in inches [mm] Tolerance 0.02 [0.5] maximum Input & Output connector (TB101): Dinkle 3. DT-49-B01W-07 with #6-32, nickel-plated screws.
- 4. Weight: 1.32 Kg (2.9 lbs.) approx.

PIN CHART

PIN MODEL	1	2	3	4	5	6	7
PUB200	Line	Neutral	Ground	V1 Return	+V1	N.A.	N.A.
PUB250 PUB300 PUB400	Line	Neutral	Ground	V1 Return	V1 Return	+V1	+V1