

20-40 WATT ITE POWER SUPPLIES

DESCRIPTION

The PUP32/41 series of AC-DC switching power supplies are for 20-40 watts of continuous output power. They are enclosed in a 94V-0 rated polycarbonate case with an IEC320/C14 inlet to mate with interchangeable cord for world-wide use. All models meet CISPR 22 and FCC class B emission limits and comply with UL, CSA, IEC and CE requirements.

FEATURES

- Operation altitude up to 5000 meters
- High Efficiency
- Overvoltage protection
- Short-circuit protection
- Overcurrent protection
- 100% burn-in at full rated load
- Compliant with DoE level VI requirements
- Compliant with RoHS requirements
- Meet LPS

INPUT SPECIFICATIONS

90-264 VAC Input voltage: 47-63 Hz Input frequency:

PUP32-10: 1.0 A (rms) for 115 VAC, 0.5 A Input current:

(rms) for 230 VAC

PUP41-10: 1.2A (rms) for 115 VAC, 0.6 A

(rms) for 230 VAC

PUP41-14: 1.4A (rms) for 115 VAC, 0.7 A

(rms) for 230 VAC

Touch current: 250 µA max. @ 264 VAC, 60 Hz

OUTPUT SPECIFICATIONS

See rating chart. Output voltage /current: Maximum output power: See rating chart.

Ripple and noise: 3% peak to peak on 5V models

1% peak to peak on 24V model

Set at 130-180% of its nominal output Overvoltage protection:

voltage

Overcurrent protection: Set at 125-160% of its nominal output

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: 0°C to +40°C Storage temperature: -20°C to +80°C

Operating humidity: 20% to 80% non-condensing Storage humidity: 10% to 90% non-condensing

PUP32/41 SERIES

RoHS



SAFETY STANDARD APPROVALS



UL 60950-1, CSA C22.2 No. 60950-1 File No. E190414



Line regulation:

TÜV EN 60950-1

GENERAL SPECIFICATIONS

Hold-up time: 8 ms minimum at 115 VAC Turn on delay time: 4 s maximum at 115 VAC Efficiency: 80% min. on 5V models

87% min. on 24V model ±0.5% maximum at full load

Inrush current: 100 A @ 115 VAC or 200 A @ 230 VAC at

25°C cold start

Withstand voltage: 1800 VAC from input to ground and output

MTRF. 100,000 hours at full load at 25°C ambient,

calculated per MIL-HDBK- 217F

EMC Performance

EN61000-4-8:

EN55022(CISPR 22): 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

EN61000-4-2: ESD,±8 KV air and ±4 KV contact FN61000-4-3 Radiated immunity, 3 V/m EN61000-4-4: Fast transient/burst, ±1 KV FN61000-4-5 Surge, ±1 KV diff., ±2 KV com. EN61000-4-6: Conducted immunity, 3 Vrms

EN61000-4-11: Voltage dip immunity, 30% reduction for 500

ms, and >95% reduction for 10 ms

Magnetic field immunity, 1 A/m

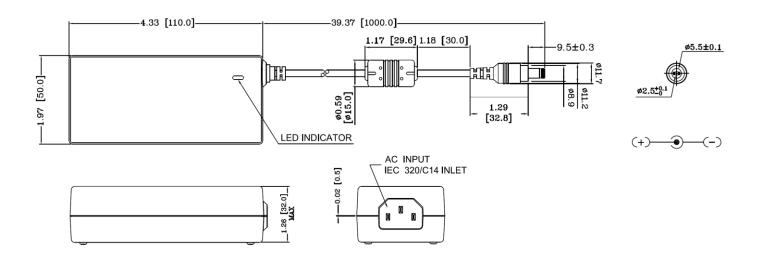
OUTPUT VOLTAGE/CURRENT RATING CHART

	Output						Average efficiency
Model	V1	Min. Current	Max. Current	Tol.	Ripple & Noise ⁽¹⁾	Max. Power	(typical) @ 115 / 230 Vac
PUP32-10	5 V	0 A	4.00 A	±5%	150 mV	20 W	84 /84%
PUP41-10	5 V	0 A	5.00 A	±5%	150 mV	25 W	84.6 /84.6%
PUP41-14	24 V	0 A	1.67 A	±5%	240 mV	40 W	88 /89%

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 47 µF electrolytic capacitor in parallel with a 0.1 µF ceramic capacitor across the output.

MECHANICAL SPECIFICATIONS



NOTES:

- 1. Dimensions shown in inches [mm]
- 2. Tolerance 0.02 [0.5] maximum
- 3. The length of output cable for output voltage 24V is 59.06 [1500.0]
- 4. Weight: 280 grams (0.62 lbs.) approx.
- 5. Output return (-) is electrically connected to incoming Earth Ground through a 0 ohm resistor as standard.

PIN CHART

MODEL	CONNECTION			
Polarity	(+) (-)			