

PTK100 Series

100 Watts

Single Output Switching Power Supply



Features:

- * Ultra-Compact 2.00 x 4.00 x 1.34" Open Frame Package
- * Universal AC Input (80-264 VAC)
- * Active Power Factor Correction for EN61000-3-2 Class D Compliance
- * 100 Watts of Single Output Power
- * Less than 0.3W No Load Input Power
- * 100,000 hours MTBF (25°C Full Load Operation)
- * International Safety Approvals & CE Mark
- * Class B Emissions
- * 3 Year Warranty



Input Specifications:

Input Range	Universal VAC (80-264 VAC) & 120-370 VDC
Input Frequency	47-63 Hz or DC
Inrush Current	40A @ 115VAC / 50A @ 230VAC max (cold start)
Input Current	1.5/0.9A @ 115/230 VAC Maximum
Input Reflected Ripple	FCC 68 part 15 Class B
Efficiency	89-90% Typical (depending on output model)
Input Protection	Single Fused (4 Amp / 250 V)
Hold-up Time	16ms minimum @ 115VAC
Leakage Current	<750μA maximum @ 264 VAC
Harmonics	Active PFC for EN61000-3-2 Class D

Output Specifications:

Adjustment Range	Fixed
Minimum Load	None
Regulation	3% Maximum (Line, Load & Temp)
Ripple / Noise	± 1% pk-pk max (20MHz)
Transient Response	+/- 5% Deviation / < 1msec recovery
Set-Point Accuracy	± 3%
Short Circuit Protection	Continuous
Over Load Protection	140-200%, automatic recovery
Over Voltage Protection	n/a

Emissions Standards

FCC Part 15J, Part 2	Within Class B Limits
EN55022 / CISPR22	Within Class B Limits

Electromagnetic Compatibility:

Electrostatic Discharge	EN61000-4-2, ±4KV Contact / ±8KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, ± 2KV
Surges	EN61000-4-5, ±2KV Line-Earth, ±1KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15 - 800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-11, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% Reduction, 5s
Radiated Emissions	FCC 68 part 15 Class B
Conducted Emissions	FCC 68 part 15 Class B
Harmonic Current	Active PFC for EN61000-3-2 Class D
Fluctuations & Flicker	EN61000-3-3

Environmental Specifications:

Operating Temp	-20 ~50°C Full Load (De-Rate 2.5%/°C up to +70°C)
Storage Temp	-40 ~ +85°C
Cooling	10 cfm airflow required (50W convection)
Temp Co-Efficient	0.4% per °C
Humidity	5 to 95% RH Non-Condensing
Vibration	2grms / 3 Axes / 5-500Hz
Shock	30G Peak Acceleration
Reliability	> 100k hours MTBF (Full Load and 25°C Operation)

International Safety Approvals

Standards	UL 60950-1 (2nd Edition) CB Report IEC 60950-1 CE Mark (LVD)
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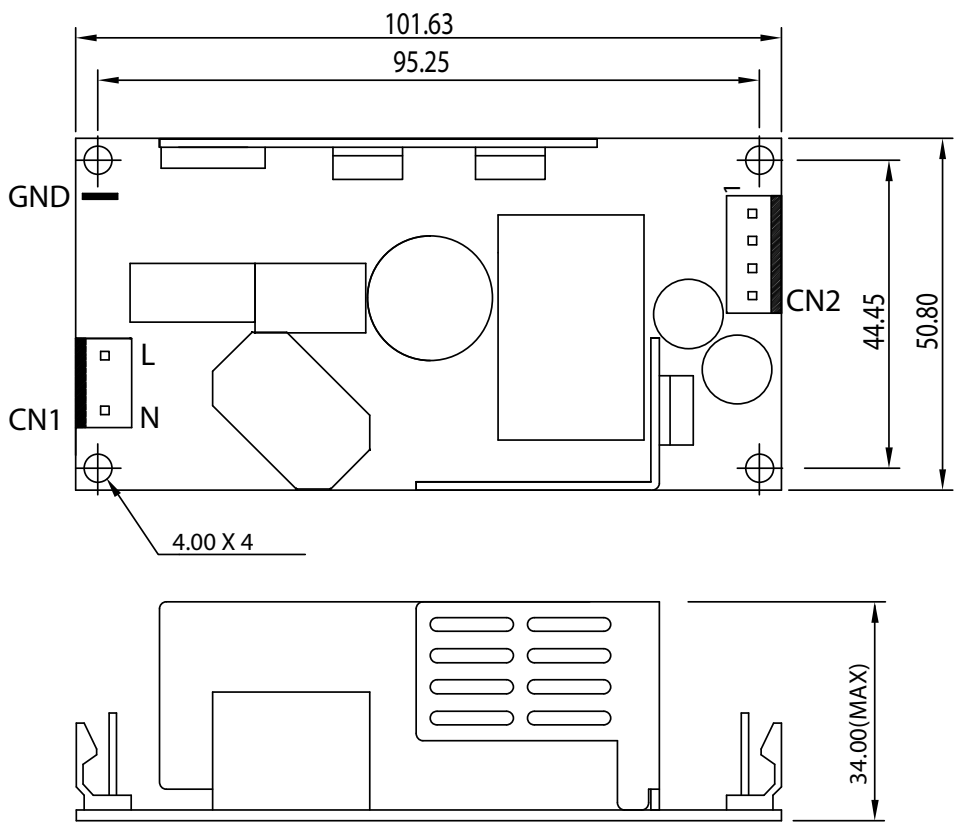
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Output Table:

Model Number	Vout	Iout	Efficiency
PTK100-12V	12V	8.0A	89%
PTK100-15V	15V	6.5A	90%
PTK100-24V	24V	4.2A	90%

Mechanical Specifications:

Construction: Open Frame



UNIT:mm ±1.0mm

CN1: Molex 26-48-1035
Mates with Molex 09-50-2030
(3-1) (2139 series)

Pin	Assignment
1	Neutral
3	Line
Ground	0.187 FASTON Tab

CN2: Molex 26-48-1045
Mates with Molex 09-50-2040
(2139 series)

Pin	Assignment
1	Vout
2	Vout
3	RTN
4	RTN