

# ARTESYN DP10054P3L

100 Watts



Advanced Energy's Artesyn new DP10054P3L is a 100 Watt freestanding external AC-DC power adapter that provides a very flexible Power over Ethernet (POE) compliant power solution for a wide variety of portable and desktop applications. The adapter accepts a wide 90-264 Vac input and provides a single, fully regulated 54 Vdc output that is capable of delivering up to 1.85 A continuously. DP100 series adapters have a typical full load efficiency of 87% and comply with DoE Level VI and EU CoC v5 Tier 2 efficiency requirements.

## DATA SHEET

### Total Power:

100 Watts

### Input Voltage:

90 - 264 Vac

### # of Outputs:

Single, 54 Volts

## SPECIAL FEATURES

- Active power factor correction
- EN6100-3-2 compliant
- Universal AC input
- Fully regulated output
- Overcurrent, overvoltage and thermal protection
- Constant voltage
- Level VI efficiency
- High MTBF
- IEC320 AC receptacle, 3 pin (type C6)
- Built in EMI filter (CISPR 22 Class B)
- AC input fuse
- Efficiency complies with European CoC v.5 Tier 2 & US DoE Level VI
- RoHS compliant
- POE isolation on output
- Meets K.21 enhanced surge requirements of 6KV Criteria B

## SAFETY

- UL UL 60950-1  
IEC 62368-1
- CSA CSA-C22.2  
No.60950-1
- CB Certificate and report
- PSE Denan PSE approval  
(Japan)
- CCC
- CE LVD and EMC
- TUV EN60950-1



## ELECTRICAL SPECIFICATIONS

Input	
Input range	90 - 264 Vac (wide range)
Frequency	47 - 63 Hz
Inrush current	94 A maximum @ 264 Vac, cold start 25 °C
Input current	1.85 A maximum
Efficiency	87% typical
EMI/RFI	FCC Part 15, Subpart B Class B & EN55022 (CISPR 22) Class-B
Safety ground leakage current	3.5 mA maximum @ 50/60 Hz, 264 Vac input
Output	
Maximum power (Po)	100 W
Hold-up time	20 ms. minimum at full load @ 115 Vac
Overvoltage protection	Latching type, recycle AC to reset
Overcurrent protection	Output short circuit protection auto recover Overload protection @ 110 - 160% above maximum rating
Thermal protection	105 °C to 120 °C Trip point; output will latch off
Cable/connector	DC cable length 2.5 mm center plug DC plug center +v DC plug outer -v

## ENVIRONMENTAL SPECIFICATIONS

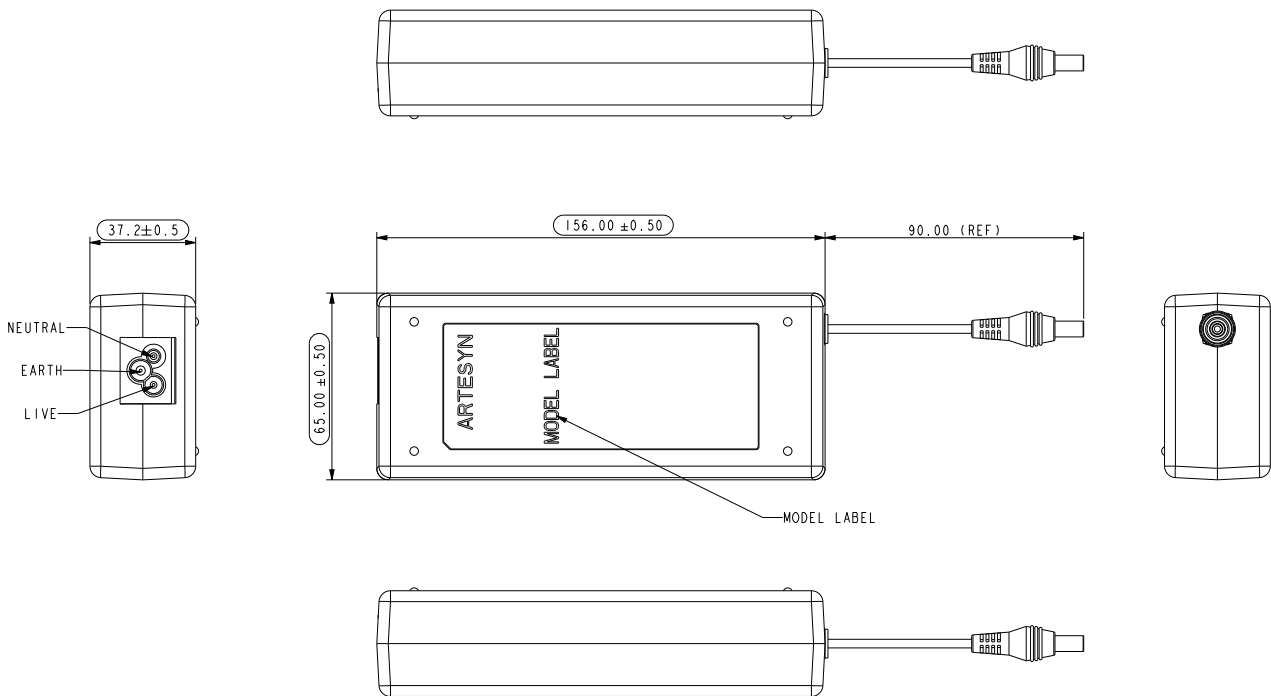
Operating temperature	-5 °C to +45 °C ambient
Storage temperature	-40 °C to +70 °C
Electromagnetic susceptibility	Designed to meet EN61000-4-2, -4, -5, level 3; EN61000-4-3, -6, 3 v/m; EN61000-4-8, -11; EN61000-3-2 Class A
Humidity	Operating; non-condensing 10% to 90% RH
MTBF demonstrated	> 550,000 hours at full load and 25 °C ambient conditions

ORDERING INFORMATION

Model Number	Maximum Power	Output Voltage	Maximum Load	Peak Load <sup>1</sup>	Regulation <sup>2</sup>	Ripple P/P (PARD) <sup>3</sup>
DP10054P3L	100 W	54 Vdc	1.85 A	2.035 A	± 5%	< 540 mV

1. Peak current lasting <4 seconds with a maximum 10% duty cycle.
2. At 25 °C including initial tolerance, line voltage, load currents and output voltages adjusted to factory settings.
3. Peak-to-peak with 20 MHz bandwidth and 10 µF (tantalum capacitor) in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.

MECHANICAL DRAWING



- Notes:
1. Specifications subject to change without notice.
  2. All dimensions in (mm)
  3. Warranty: 2 year
  4. Weight: 0/9 lb./0.4 kg
  5. AC input connector: IEC320, C6. AC input power cord sold separately.
  6. Specifications at factory settings at 115/230 Vac input, 25 °C unless otherwise stated



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## ABOUT ADVANCED ENERGY

Advanced Energy (AE) has devoted more than three decades to perfecting power for its global customers. AE designs and manufactures highly engineered, precision power conversion, measurement and control solutions for mission-critical applications and processes.

Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

**PRECISION | POWER | PERFORMANCE**

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