



Long-lasting and low maintenance, LED-based light sources are an excellent solution for all lighting applications. For optimal performance, these solutions require reliable drivers matching the long lifetime of the LEDs. **The Advance Xitanium LED Outdoor Driver portfolio** offers a range of products specially designed to operate LED solutions in outdoor applications. These drivers are designed for hard-wired integration into outdoor luminaires for the most rugged applications. They operate to specification under wide temperature and electrical ranges to ensure reliability.

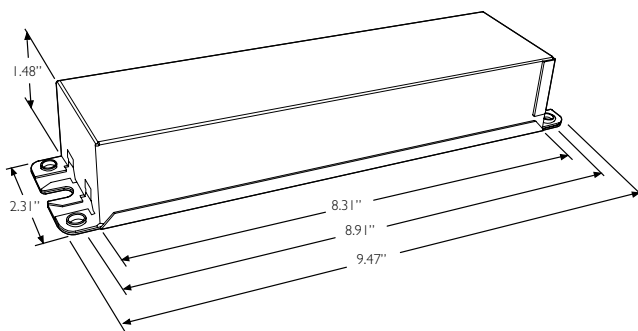
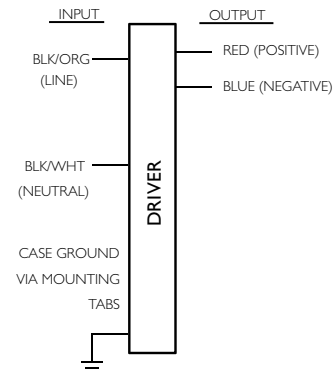
### Specifications

Input Voltage (Vrms)	Output Power (W)	Output Voltage (V)	Output Current (A)	Efficiency@ Max Load and 70°C Case	Max. Case Temp. (°C)	Input Current (Arms)	Max. Input Power (W)	THD @ Max. Load	Power Factor @ Max. Load	Surge Protection Common/ Diff (KV)	Envir. Protection Rating
347	150	60-210	0.7	91.5	80	0.50	164	<10%	>0.95	6	UL damp & dry, Type HL
480				92.5		0.35					

### Enclosure

	In. (mm)
Case Length	8.31 (211.1)
Case Width	2.31 (58.6)
Case Height	1.48 (37.6)
Mounting Length	8.91 (226.3)
Overall Length	9.47 (240.5)

### Wiring Diagram



# Xitanium XH150C070V210FNF1

## 150W 347-480V 0.7A Fixed

### Electrical Specifications

All the specifications are typical and at 25°C Tcase unless specified otherwise.

#### Features

- 50,000+ hour lifetime<sup>1</sup>
- Excellent thermal performance
- 6kV Combi-wave surge rating to comply with ANSI C82.77-5 CAT C low

#### Benefits

- Enables long life luminaire designs
- Allows luminaire designs for ambient environments
- No external surge protection required to pass C82.77-5 CAT C low

#### Application

- Area
- Roadway
- Parking garages
- Floodlights

### Product Data

#### Order Information

Full Product Code	XH150C070V210CNF1M (Mid-Pack, 10pcs/Box)
Line Frequency	50/60Hz
Min. Mains Voltage Operational	312V
Max. Mains Voltage Operational	528V

#### Output Information

Maximum Open Circuit Voltage	300Vdc
Output Current Ripple (ripple = peak to average / average)	15% max @ max Iout and max Vout Low frequency ( $\leq 120$ Hz) content <5%
Output Current Tolerance (at maximum output current)	<5%
Protections	Short Circuit and Open Circuit Protection for LED + and LED – and Temperature Foldback
Operating Ambient Temp. Range	-40°C to +55°C
Max Case Temperature (Tcase)	80°C

#### Environment & Approbation

Agency Approbations	UL 8750, CSA 250.13
Electromagnetic Compliance	FCC Title 47 Part 15 Class A
Audible Noise	<24dB Class A
Weight	1.98Lbs/ 0.90Kgs

<sup>1</sup> Advance Xitanium LED Drivers are designed and manufactured to engineering standards correlating to an average life expectancy of 50,000 hours of operation at maximum rated case temperature. Minimum 90% survivals based on MTTF modeling.

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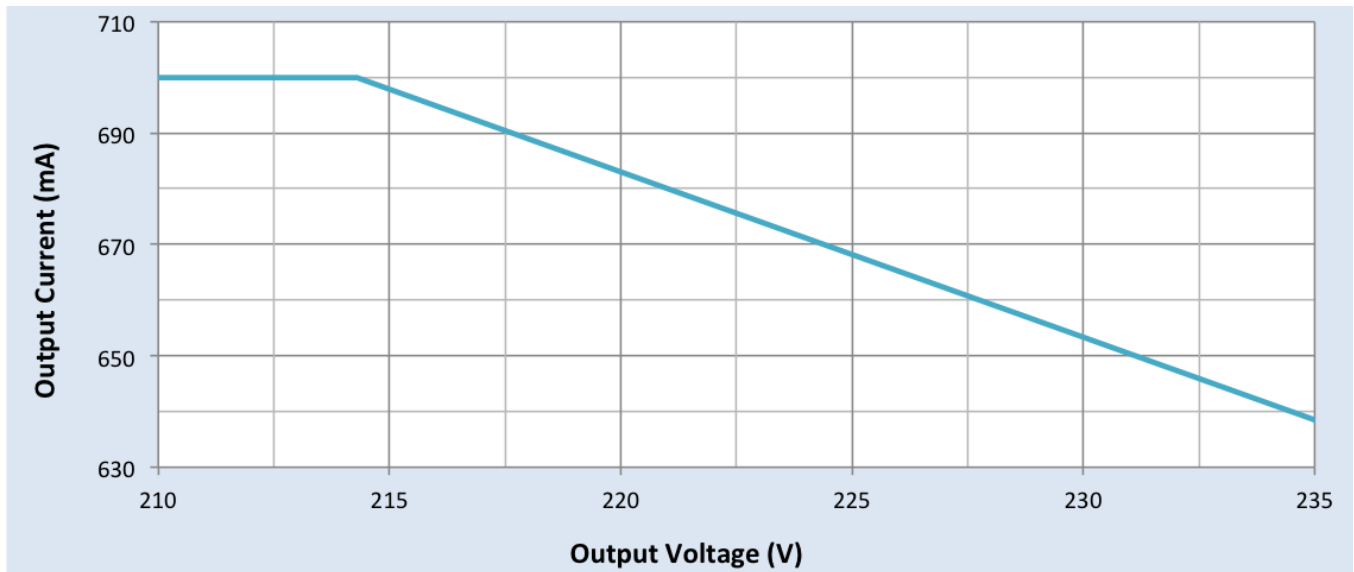
150W 347-480V 0.7A Fixed

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## Driver Current Cutback

The Driver Current Cutback feature provides for an increased output voltage with a reduced output current during abnormal LED operation, such as cold weather starting.



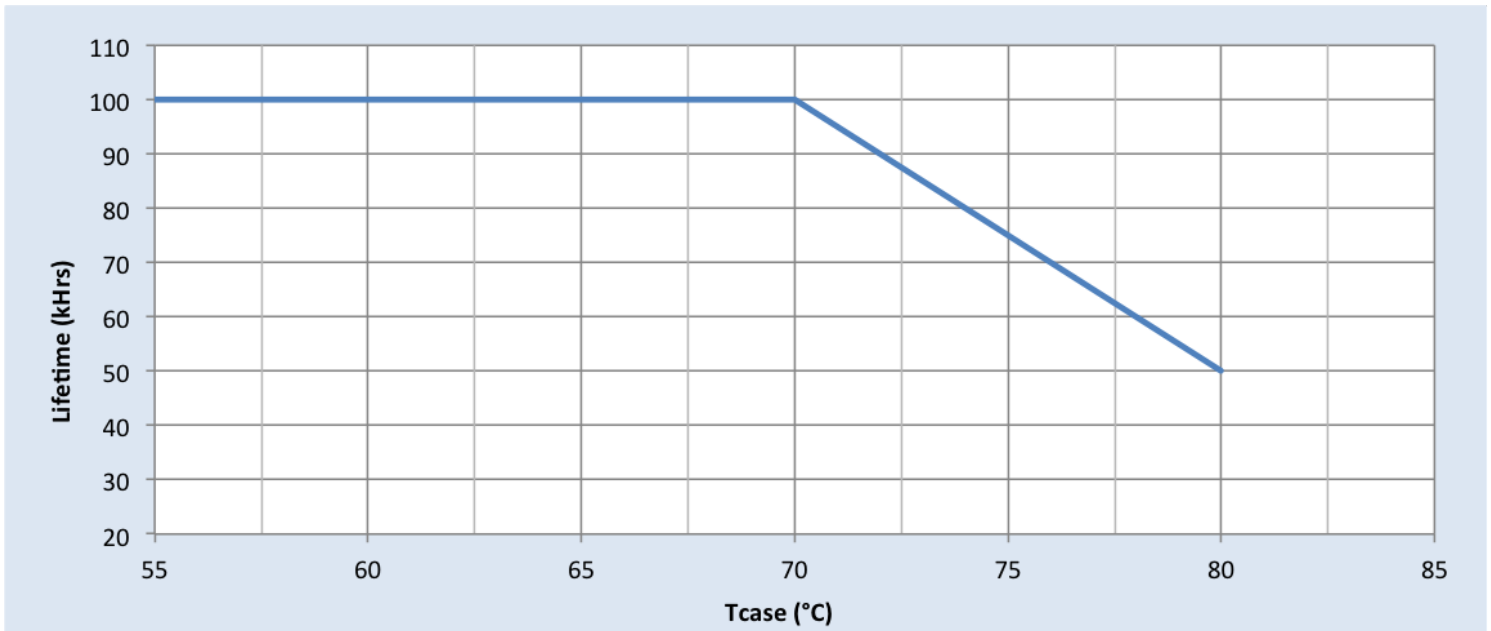
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150W 347-480V 0.7A Fixed

## Performance Characteristics

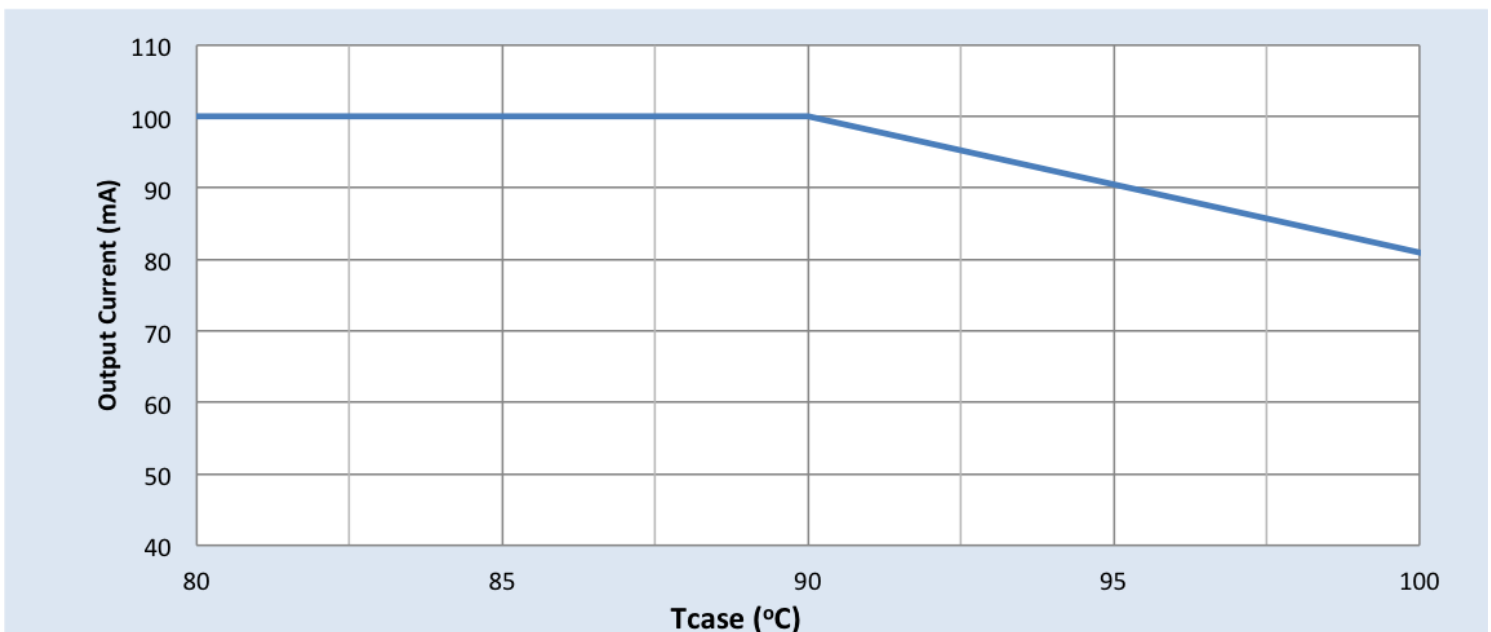
Based on measurements on a typical sample. The accuracy of the measurements is within the tolerance of the measurement instruments. The graphs are meant to be a guideline and not a specification.

### Output Current Vs. Driver Case Temperature



Note: There is  $\pm 5^{\circ}\text{C}$  tolerance on the driver case temperature.

### Driver Lifetime vs. Driver Case Temperature



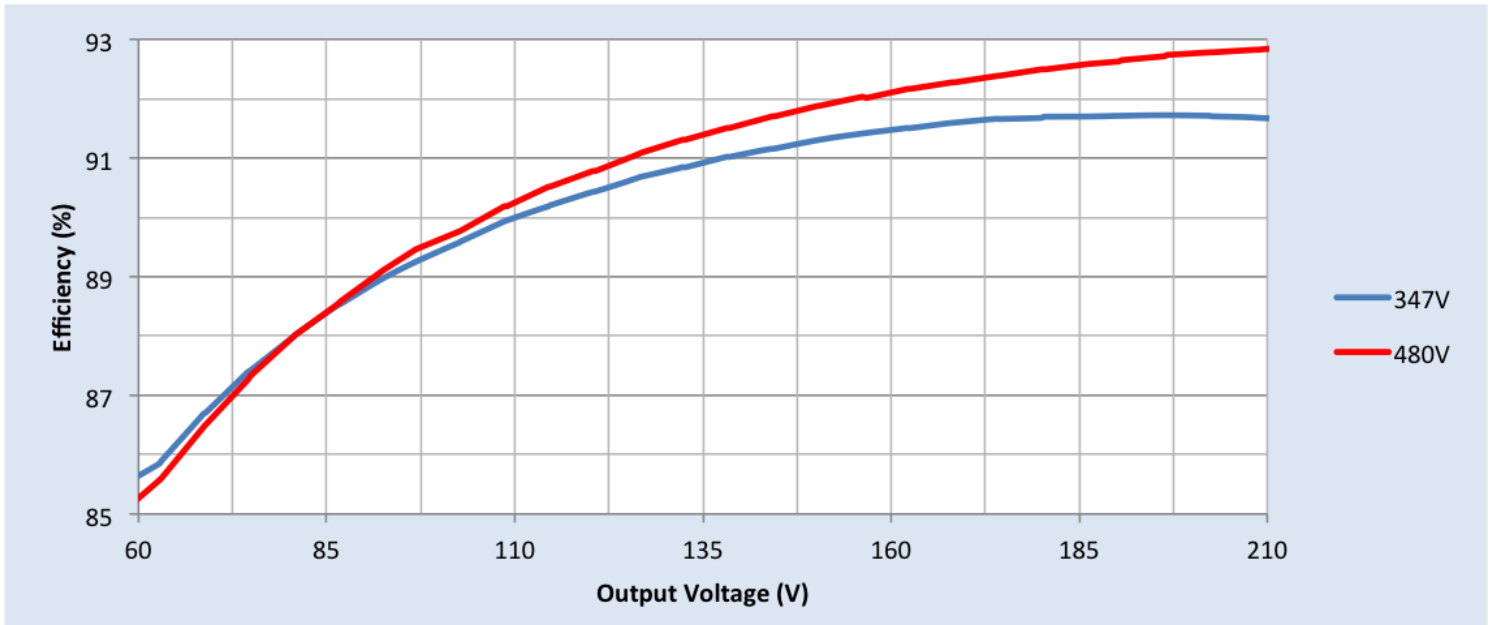
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150W 347-480V 0.7A Fixed

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## Efficiency Vs. Output Voltage



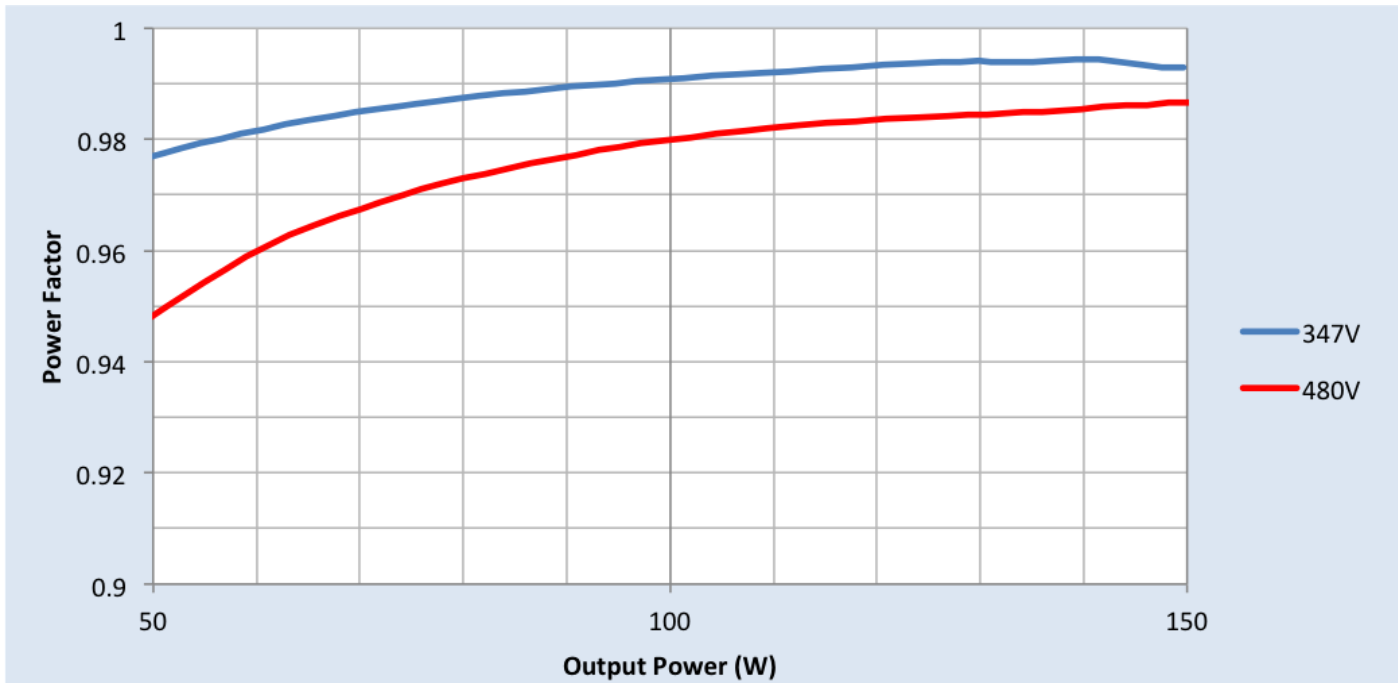
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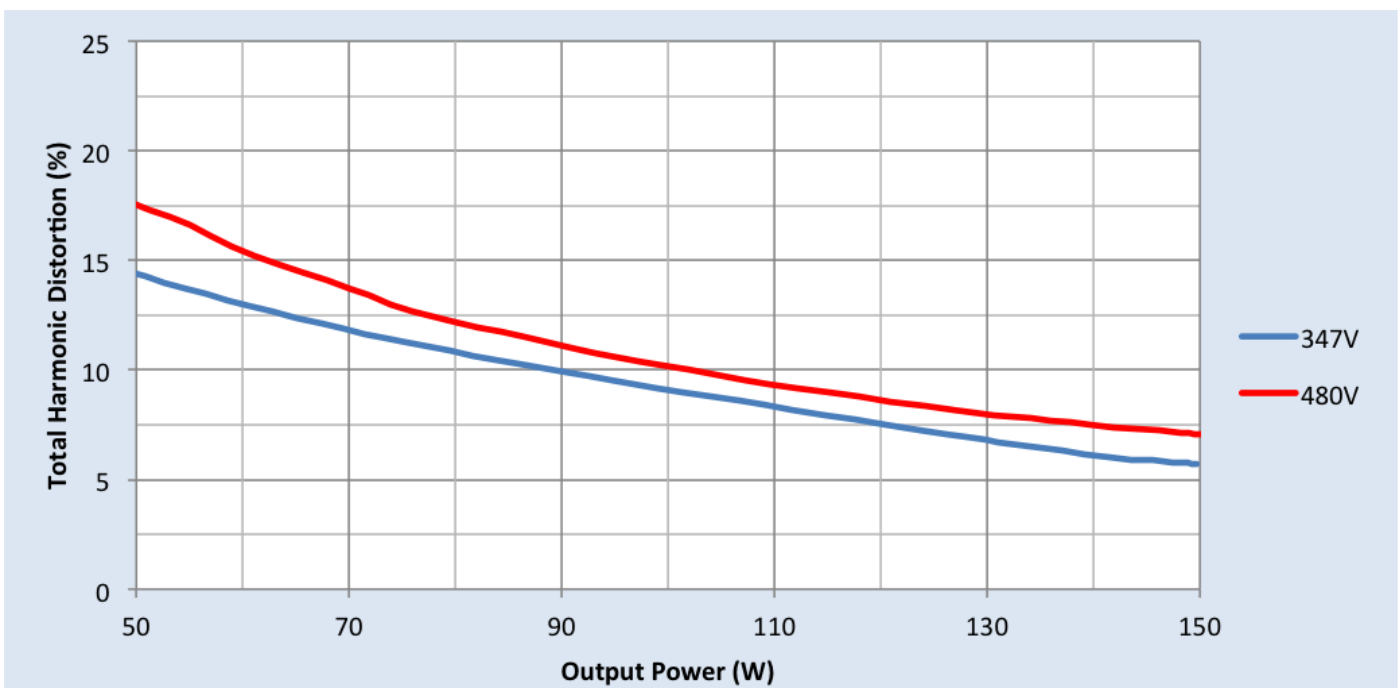
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### Power Factor Vs. Output Power



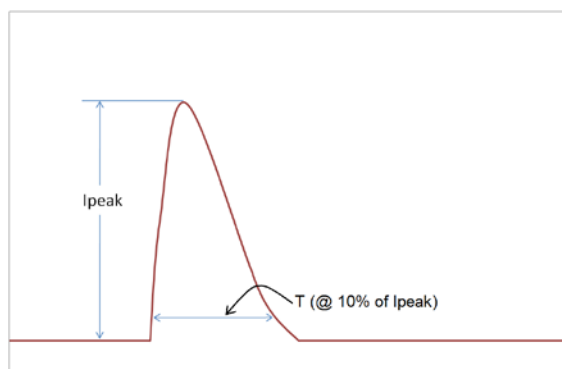
### Total Harmonic Distortion (THD) Vs. Output Power



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## Inrush Current Info:



Vin	Ipeak	T (@ 10% of Ipeak)
347 Vrms	56A	196 $\mu$ s
480 Vrms	77A	196 $\mu$ s

Inrush current is measured at peak of the corresponding line voltage, source impedance per NEMA 410.

## Lightning Surge Info:

ANSI Surge Type	Differential Mode (L-N)	Common Mode (L-G, N-G, L&N-G)
1.2/50 $\mu$ s Combination Wave (w/t 2 $\Omega$ )	6kV	6kV

## Isolation:

Isolation	Input	Output	Enclosure
Input	NA	2xU+1kV	2xU+1kV
Output	2xU+1kV	NA	2xU+1kV
Enclosure	2xU+1kV	2xU+1kV	NA

## UL Conditions of Acceptability

Please contact your representative for a copy of the latest UL Conditions of Acceptability (COA).

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.

