

# PFU-P-C-O-090-02

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## 90 W PoE Extender, 2 Port Universal Mount, Outdoor

- Environmentally sealed and tested
- Electrical power management
- Circuit protection electronics
- Optical to electrical Media Conversion
- Automatically conditions electrical voltage to the correct level
- 2 independent PoE ports

### Product Classification

<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA   Latin America   North America
<b>Product Type</b>	PoE unit

### General Specifications

<b>Data Transfer Rate, maximum</b>	1 Gb
<b>Interface, Input</b>	1GBASE-X (2)
<b>Interface, Output</b>	10/100/1000 BASE-T
<b>Mounting</b>	Universal pole mount   Universal wall mount
<b>Total Ports, quantity</b>	5
<b>Transmission Standards</b>	10/100/1000 BASE-T   1GBASE-X
<b>Input/Output Interface</b>	3 input / 2 output

### Dimensions

<b>Height</b>	224.71 mm   8.847 in
<b>Width</b>	283 mm   11.142 in
<b>Depth</b>	77.02 mm   3.032 in

### Electrical Specifications

<b>Input Voltage Range</b>	-25 to -57 Vdc
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### Electrical Performance

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**Notes:**

- This table applies only to the PFU-P-C-090-02
- NEC Class 2 is generally limited to 60V DC, SELV to less than 75 V DC
- $P_{out}$  is the value related to the 802.3(bt) PoE Class standards, i.e. 90 W is the value associated with Class 8 PSE requirements
- The 90 W PoE Extender supports 90 W of shared output between the 2 PoE ports
- 90 W values based on 2m patch cable to PD device, other values based on 50m patch cable

PSU Output	Cable Gauge	2 m patch cable	50 m patch cable	50 m patch cable	50 m patch cable	50 m patch cable	50 m patch cable
		Max Cable Length (m) Pout=90 W*	Max Cable Length (m) Pout=60W	Max Cable Length (m) Pout=45W	Max Cable Length (m) Pout=30W	Max Cable Length (m) Pout=15.4W	Max Cable Length (m) Pout=7 W
Maximum (57V)	12	350*	888	1301	1886	3131	4633
	16	140*	351	514	746	1238	1833
Nominal (48V)	12	250*	630	922	1335	2217	3280
	16	100*	249	365	528	877	1297
Minimum (40.5V)	12	175*	448	630	900	1494	2211
	16	70*	177	249	356	591	874

**Assumptions:**

- Hybrid cable temp=20 C
- Patch cable temp=55C
- CommScope Cat 6/6A outdoor patch cord
- \* 90 W distance values are highly dependent on temperate, input voltage, cable length and cable diameter
- A more accurate online calculator will be available to more accurately estimate distances
- The 90 W values are conservative and for planning purposes and are based on using CommScope power source equipment

## Material Specifications

**Finish** Powder coated, off-white

**Material Type** Aluminum

## Environmental Specifications

**Installation temperature** -5 °C to +45 °C (+23 °F to +113 °F)

**Operating Temperature** -40 °C to +60 °C (-40 °F to +140 °F)

**Storage Temperature** -40 °C to +70 °C (-40 °F to +158 °F)

**Environmental Note** Not suitable for installation in locations where submersion in water or other liquids is possible (e.g. below grade hand hole or manhole)

**Environmental Space** Outdoor

**Qualification Standards** CISPR 22/FCC CFR 47 | EN300386 | ETSI EN 300 019-1-4 | IEC 60529, IP67 | IEC 60950-1 | IEC 60950-22 | IEC 62368 | IEEE 802.3at Type 2 | IEEE 802.3bt Type 3 | NEC Class 2

**Safety Standard** CE | CSA | FCC | RCM | SELV | WEEE

## Packaging and Weights

**Weight, net** 5.08 kg | 11.199 lb

## Regulatory Compliance/Certifications

**Agency** CHINA-ROHS

**Classification** Below maximum concentration value

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REACH-SVHC

Compliant as per SVHC revision on [www.commscope.com/ProductCompliance](http://www.commscope.com/ProductCompliance)

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