

# Outdoor CAP Power Requirements

This document outlines the prerequisite to power up Juganu's CAP (Gateway), full datasheet can be found at the following [link](#)

Juganu's CAP can be powered in two ways:

1. Direct DC Power
2. Power over Ethernet (PoE)

As part of its accessory kit, Juganu offers both DC and PoE options, but customers may also source their own equipment provided it meets the requirements specified below (after consulting Juganu for validation).

## General Requirements

- DC Power:
  - Cable length must be under 20 m
  - Input voltage: 48vDC nominal +/- 2v (@ input of GW)
  - Cable gauge: 20 AWG outdoor-rated cable
  - Cable Diameter 5.3-9 mm
- PoE:
  - POE injector (PSE) minimum IEEE802.3at (25w) Active POE injector
  - Outdoor-rated RJ45 cable (Cat6 or higher)
  - Maximum length: 80 m
  - Cable Diameter 5.3-9 mm

The following examples are validated by Juganu

	MPN		Description	Cables	Mounting Kit	Notes
Power Supply	<a href="#">NPF-90-48</a>		<b>Outdoor</b> Constant Current, AC/DC Converter	Use 20 AWG outdoor cable (e.g., AlphaWire 5052C)	—	- Power connections should be made inside an outdoor sealed IP66 junction box - Alternatively, use a waterproof dual-side cable gland
	<a href="#">NPF-60-48</a>		<b>Outdoor</b> Constant Current, AC/DC Converter	Use 20 AWG outdoor cable (e.g., AlphaWire 5052C)	—	- Power connections should be made inside an outdoor sealed IP66 junction box - Alternatively, use a waterproof dual-side cable gland
PoE Injector	<a href="#">PD-9001GO-ET/AC</a>		<b>Outdoor</b> 54V Power Over Ethernet (POE) 1 Port Midspan Injector 10/100/1000 Mbps Data Rate	2x CAT6 Outdoor Cable.	WALL /POLE 8" MOUNT: PD-OUT/MBK-ET	- CAT6 Outdoor Cable
	<a href="#">PD-9001-10GC</a>	Indoor only 	<b>Indoor</b> 1 port, 30W, IEEE 802.3at-compliant indoor PoE midspan with 10G	2x CAT6 Cable	—	- CAT6 Cable