



Energy Harvesting (EH) Repeater AMI Network Extension Technology

The traditional installation of a repeater radio involves finding an appropriate pole location and the need to install secondary power. Utilizing the Cooper Power Systems EH Power Supply as one integrated unit with a repeater radio significantly reduces the cost of deployment and maintenance while gaining network performance and the flexibility to install almost anywhere.

Cultivate the Benefits

Flexible Low Cost Deployment

- Eliminates the need for secondary power
 - Up to a 95% reduction in time to install*
 - Potentially reduce size of deployment crews
 - Cost reduction in installation materials and overall deployment time
- Installs using a hot stick or glove
- Installation not limited to pole location
- Easy to remove and relocate
- Minimal training needed (similar to FCI mounting technology)

Extend Coverage and Reliability

- Increase the local density of other mesh devices
- Improve network performance:
 - Low-density rural areas
 - Urban areas with obstructed paths
 - 4 hour battery back-up
- No Maintenance



Power Source	<ul style="list-style-type: none"> • Power line (inductive coupling) • Internal rechargeable battery
Power Line Voltage	0.1 V to 34 kV (line-to-ground)
Power Line Current	> 10 Amps continuous**
Battery	1.1 Ah 3.3V rechargeable lithium ion
Battery Backup Time	~4 hours (depending on communications activity)
Battery Inactivity Shelf Life	~2 years
Battery Activity Shelf Life	~20 years
Dimensions (approximate)	<ul style="list-style-type: none"> • 10.0" / 25.4 cm long • 5.0" / 12.7cm wide • 7.0" / 17.8 cm high
Weight (approximate)	3.7 lbs / 1.7 kg
Operating Temperature	-31 °F / -35 °C to +176 °F / +80 °C
Humidity	100%
Mounting	Clamping mechanism over power line
Line Conductor Size	0.25" / 0.635 cm to 1.75" / 4.5 cm
Enclosure	Epoxy encapsulated

*Compared to an installation requiring the hanging of a transformer.

**Information provided based on a 1W radio at a 10% duty cycle. Results may vary.

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COOPER Power Systems

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