



Energy Harvesting (EH) Power Supply

Utilities are entering an exciting era—moving from the clunk and thunk of yesterday's power grid to the sleek beauty of today's Smart Grid. As a supplier of Smart Grid components to North American utilities, Cooper Power Systems has enhanced its customer offering with the EH Power Supply.

Powering the Smart Grid through Energy Harvesting

The EH Power Supply is communication neutral and can be used to power a variety of radios and sensors, harvesting the energy from power conductors. Its durable and robust design, with a patented clamp mechanism on the housing and spring-action closure of the transformer, allows for hot-stick installation on energized power lines.

The EH Power Supply's flexible installation allows for deployment based on communication and location needs without the constraint of a 120-240VAC power source.

Cultivate the Benefits

Flexible Low Cost Deployment

- Installs in minutes
- Installs using a hot stick or glove
- Installation not limited to pole location
- Eliminates the need for secondary power
- Minimal training needed

No Maintenance

- Eliminates the need for a spare parts inventory



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)
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

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