

hammond  
POWER SOLUTIONS



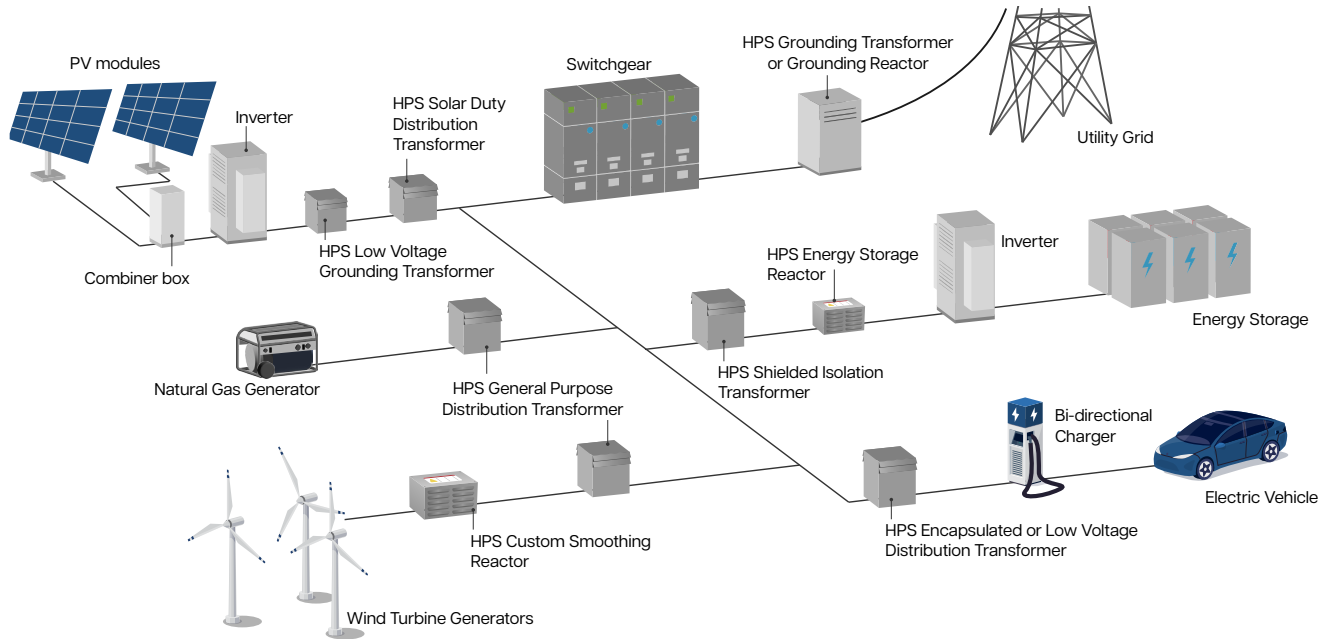
# RENEWABLE ENERGY SOLUTIONS



# Renewable Energy Solutions

## Our Experience

The Renewable Energy market covers a broad range of applications and environments, and demands a high level of safety and reliability. Hammond Power Solutions (HPS) offers the broadest variety of transformer and reactor solutions for the difficult applications found in the renewable energy market. Whether it's a standard transformer or reactor, or a custom built, HPS has the experience to provide a magnetics solution for your application.

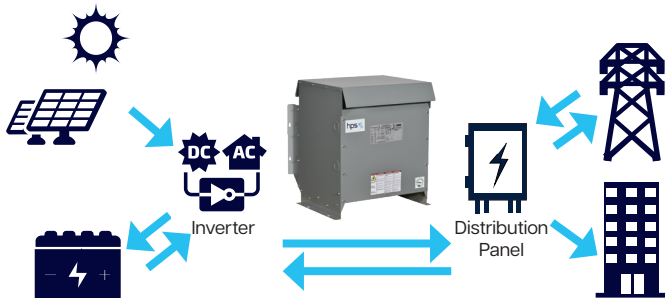


## Products for Renewable Energy Applications

### HPS Solar Duty Distribution Transformer

HPS Solar Duty distribution transformers are designed for the renewable energy industry. These transformers are designed for applications where voltage adjustments are necessary between the solar generation system and the utility service. Isolation transformers are traditionally used where power flows in a single direction to feed a load.

Many electrical codes require a manufacturer to declare if a transformer is designed for step-up or step-down use. HPS Solar Duty distribution transformers are intended for bi-directional\* use in utility-interactive generation systems.



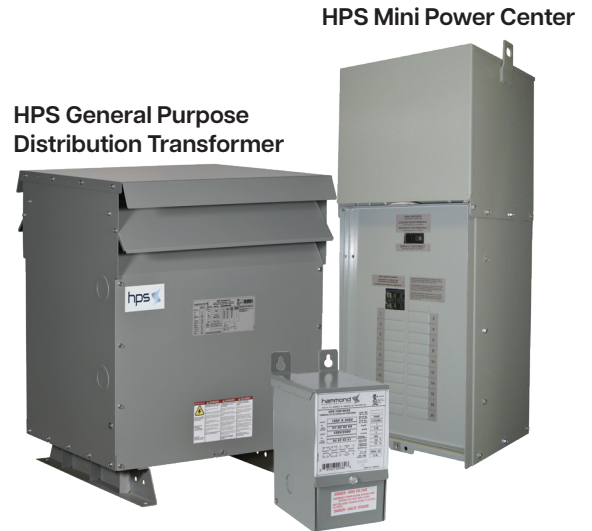


## E-Mobility Duty Transformers

**HPS General Purpose Distribution Transformer:** General purpose distribution transformer rated for 600 volts and below. The HPS General Purpose serves as a versatile solution for both step-up and step-down applications, facilitating distribution to 3-phase fast chargers or multiple 1-phase level-2 chargers. Its highly desirable feature includes a highlighted 416Y/240 output for optimal performance.

**HPS Encapsulated Transformer for Commercial Applications:** Innovative design that delivers an optimal solution for commercial applications prioritizing quality, ease of installation, and cost-effectiveness. Specifically engineered for stepping down 600V or 480V to 240V, it is ideally suited for placement near 1-phase 240V Level 2 charging pedestals.

**HPS Mini Power Centers:** Convenient pre-wired power center that saves you time, money, and space. HPS Mini Power Center combines a pre-wired primary and secondary main breaker, secondary power panel, and dry-type shielded transformer in a Type 3R enclosure.



HPS General Purpose Distribution Transformer

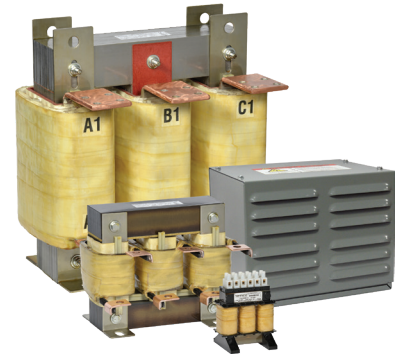
HPS Mini Power Center

HPS Encapsulated Transformer for Commercial Applications

## Energy Storage Reactors

These reactors play a crucial role in sustaining system power and can be strategically positioned between the ESS inverter and the Facility grid service.

- Improves Power Factor to near unity
- Protection against small grid/service current surges
- Enhanced Pulse Width Modulated (PWM) suppression for peak voltages safeguarding against cable and electronic device insulation damage.



## HPS Grounding Products

HPS specializes in crafting custom dry-type transformers and air core reactors to meet the diverse needs of a wide range of customers.

- **Low and Medium Voltage Grounding Transformers:** Available in Zigzag & Yn-Delta configurations
- **Air Core Neutral Grounding Reactors:** Used for low impedance grounding of a neutral point of 3 phase systems to control single line to ground faults.





## CANADA

### Hammond Power Solutions

595 Southgate Drive  
Guelph, Ontario N1G 3W6  
Tel: (519) 822-2441 | Fax: (519) 822-9701  
Toll Free: 1-888-798-8882

[sales@hammondpowersolutions.com](mailto:sales@hammondpowersolutions.com)



## UNITED STATES

### Hammond Power Solutions

1100 Lake Street  
Baraboo, Wisconsin 53913-2866  
Tel: (608) 356-3921 | Fax: (608) 355-7623  
Toll Free: 1-866-705-4684

[sales@hammondpowersolutions.com](mailto:sales@hammondpowersolutions.com)



## MEXICO

### Hammond Power Solutions Latin America S.

Av. No. 800,  
Parque Industrial Guadalupe  
Guadalupe, NL, Mexico, C.P. 67190.  
Tel: (819) 690-8000

[sales@hammondpowersolutions.com](mailto:sales@hammondpowersolutions.com)



## ASIA

### Hammond Power Solutions Pvt. Ltd.

Plot No 6A, Phase -1, IDA,  
Pashamylaram, Patancheru (M)  
Sangareddy, 502 307, India  
Tel: +91-994-995-0009

[marketing-india@hammondpowersolutions.com](mailto:marketing-india@hammondpowersolutions.com)

## EMEA (SALES OFFICE)

### Hammond Power Solutions SpA

Tel: +49 (152) 08800468

[sales-emea@hammondpowersolutions.com](mailto:sales-emea@hammondpowersolutions.com)



[hammondpowersolutions.com](http://hammondpowersolutions.com)



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