

CRITICAL DESIGN CONSIDERATIONS

for Yaskawa Solectria Solar Utility-Scale Inverters

This training will provide a deep dive into the essential design factors and most important National Electrical Code® (NEC) to be considered when integrating Yaskawa utility-scale inverters. From DC array sizing through inverter behavior, terminal specifications, and transformer compatibility, we will cover practical design choices to optimize performance, prevent faults, and ensure system longevity. Attendees will gain actionable knowledge for designing robust solar installations:

- DC array sizing (string length, number of strings, combiner box usage)
- Inverter clipping conditions and maximum current ratings
- AC and DC terminal wiring and sizing considerations
- Transformer compatibility and inverter-per-transformer guidelines, including weak grid and low SCR conditions
- Model distinctions: DCG versus standard inverter behavior
- Phantom voltage issues and ground fault detection in DCG setups



Hatem Alymani
Application Engineer
Yaskawa Solectria Solar
Temecula, CA

Hatem.Almani@Solectria.com
linkedin.com/in/hatem-alymani-80430149

Hatem Alymani is an application engineer at Yaskawa Solectria Solar responsible for the design, evaluation and implementation of solar inverter solutions. He has worked with the company for nearly three years having started in September 2023. Hatem served in various roles at Baker Electric Home Energy (California), Fortune Energy (California) and American Solar Direct. He also ran his own company - Renewable Design & Consultation - for several years. Hatem has a Master's degree in Systems Management & Economics. He has also completed the required Ph.D. courses in Electrical and Electronic Engineering at Northeastern University.



Jonathan Helmuth
Director of Sales
Yaskawa Solectria Solar
Lawrence, MA

Jonathan.Helmuth@Solectria.com
linkedin.com/in/jonathan-helmuth

A seasoned professional with over 20 years of experience in solar and renewable energy, Jonathan Helmuth has spent the majority of his career at Yaskawa Solectria Solar, the largest and longest-standing U.S. manufacturer of PV inverters for commercial and utility applications. Beginning in production, he gained hands-on manufacturing expertise before advancing into sales leadership roles. Promoted to Director of Sales in 2023, he now leads the U.S. sales team, supporting customers nationwide.

REGISTER
TODAY!



**JOIN
US**

**SEPT 24, 2026
11AM CT**

**DID YOU
KNOW?**

Ambient temperature variations can influence array voltage and trigger inverter derating.



**2026
SCHEDULE**

TOPIC SESSION ANNOUNCED SOON!
December 3 / 11am CT

WATCH ON-DEMAND:
solectria.com/trainings/webinars

LEARN • ASSESS • APPLY