

# Distributed Energy Storage System Design Just Got Easier!



## **Power Conversion System**

(Model: OZPCS-RS40 - 120/208V | 230/400V | 277/480V 3-phase)

With a compact, 2.5U form factor, the transformer-less OZPCS-RS40 power conversion system installs directly into standard 19" battery racks. Front-side terminations simplify interconnect, and the fully parallelable, 40kW architecture permits easy system expansion.

With operating ranges of 208-480VAC and 330-820VDC, both grid-tie and grid-forming operating modes, advanced "Smart Inverter" capabilities, and certification for energy storage applications, system design has never been easier.



**Rack Scale™**  
40kVA Power Conversion System



### Benefits

The benefits of a Trystar conversion system include improved energy efficiency, regulation compliance, compatibility, integration with renewable sources, and safety, making these essential components in modern renewable energy solutions.

- **Reduced Size and Weight:** No transformer means less bulk, making this system more compact and lightweight. This is crucial in applications like renewable energy systems (solar, wind).
- **High Efficiency:** Transformer-less design reduces energy losses associated with magnetic components. This leads to a more energy-efficient conversion.



### Applications

- Battery Storage
- Microgrids
- EV Charging Unit(s)
- Remote Power Unit(s)
- Resiliency
- Distributed Utility
- Energy Arbitrage
- Distributed Generation
- Optional Accessories:
  - Mounting hardware: for standard 19" rack
  - Bus Bar Kit: connect 2 units together
  - Communications Cable: for parallel connections



### Key Features

- Optimized for 120/208V | 230/400V | 277/480V 3-phase applications
- Supports grid-tie and grid-forming applications
- Easy paralleling allows for quick product scaling
- UL1741-SB smart inverter functions
- 3 and 4 wire transformer-less grid interface
- Power Studio™ user interface
- SunSpec™ Modbus RS-485 compatible
- Designed and assembled in the U.S.A.
- Black Start Capable
- CEC Listed



### Power Studio™ Configuration Tool

Power Studio™ is a Windows-based User Interface that can be used to easily configure and control the OZPCS-RS40. The tool communicates with the inverter over the RS-485 serial port and provides a simple, intuitive user interface. Features include:

- Simple tabbed interface
- Dashboard
- Configuration
- Instrumentation
- Edit Configuration
- Download/Upload Configurations
- Energy Arbitrage
- Distributed Generation



### Catalog Numbers

| Catalog no. | Description                   |
|-------------|-------------------------------|
| OZPCS-RS40  | 40kVA Power Conversion System |