

# Energy Storage Power Conversion System

## Rack Scale™ Series

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

Offering wide 208-480VAC and 330-820VDC operating ranges, grid-tie and grid-forming operating modes, advanced “Smart Inverter” features, and design and certification for energy storage applications, system design doesn’t get any easier.



### Flexible

- Grid-tie and grid-forming operation
- Seamless transfer
- 330-820 VDC input
- Three and four wire transformerless grid interface

### Scalable

- Designed to be paralleled for high power applications
- Compact 2.5U 19" rack mount
- Front-side terminations for easy cable routing
- 96.4% CEC efficiency

### Integrated

- Black start bias supply
- AC circuit breaker and contactor
- DC contactors
- Pre-charge circuitry
- Variable speed forced air cooling

UL 1741-SA

V-VAR, V/W, F/W MODES

SUNSPEC CERTIFIED

L/HVRT & L/HFRT



RECOGNIZED COMPONENT



Intertek

DR-0110 Rev H

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603.546.0090 OztekCorp.com



Fit for the Future.

# OZPCS-RS40 Specifications

## DC CONNECTION

Operating Voltage Range . . . . . 330 - 820 VDC  
Full Power Voltage Range . . . . . 550 - 820 VDC  
Max DC Current . . . . . +/- 75 A  
Max DC Power . . . . . 40 kW  
Wiring Configuration . . . . . Two wire

## AC CONNECTION

Max AC Power . . . . . 40kVA @ 480 VRMS  
Max AC Current . . . . . 50 ARMS  
AC Line Voltage . . . . . 208 - 480 VRMS  
AC Line Frequency . . . . . 50 / 60 Hz  
Supported Grid Connections . . . . Three and four wire, grounded neutral  
Power Factor . . . . . -1 to +1  
Current Harmonics . . . . . IEEE 1547 Compliant, <3%THD  
Peak Efficiency . . . . . 97%

## ENVIRONMENTAL

Operating Temp . . . . . -5°C to 45°C continuous | 60°C max  
Cooling . . . . . Forced air by internal variable speed fans  
Max Elevation . . . . . 1,000m No Derating  
1,000m - 3,000m Derated  
Enclosure . . . . . 2.5U, 19" Rack Mount  
Weight . . . . . 43kg / 97 Lbs  
Ingress Protection . . . . . IP20  
Certifications and Standards Compliance . . . . . UL1741 SA, CA Rule 21 phases 2 & 3, CSA C22.2#17, IEEE 1547, SunSpec Cert # 032-001, California Energy Commission, SGIP, IEEE 519, IPC9592

## USER INTERFACE

Isolated Communication Link . . . . Modbus RS-485  
Register Mapping . . . . . SunSpec PCS  
Isolated Digital Inputs . . . . . Emergency Shutoff | Bias Enable  
Isolated Digital Outputs . . . . . User Configurable 1 and 2  
Indicator LEDs . . . . . Fault | Operating | Standby | Power On  
Warranty . . . . . 5 years standard  
5 year warranty extension available

## REDUCE TIME TO MARKET

- Supports grid-tie and grid-forming applications
- Easy paralleling allows for quick product scaling
- 2.5U, 19" rack mount

## FEATURES

- Seamless transfer
- UL1741-SA smart inverter functions
- Three and four wire transformerless grid interface
- Integrated data logging

## WORLDWIDE APPLICATION

- Wide AC voltage range
  - 208-480VAC
  - 50/60 Hz
- Wide DC voltage range
  - 330-820VDC

## INDUSTRY STANDARD INTERFACE

- SunSpec certified
- Modbus RS-485



**Rackable, Stackable.**

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