



# OZpcs-RS40

Energy Storage Power Conversion System  
Rack Scale™ Series

## OZ PCS

Modular Energy Storage Power  
Conversion



### **Flexible**

- Grid-tie & Grid-forming operation
- Seamless transfer
- 330 - 820 V<sub>DC</sub> input
- 3 & 4 wire transformerless grid interface

### **Scalable**

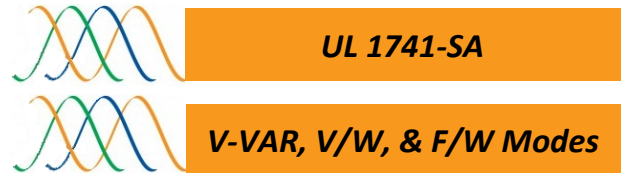
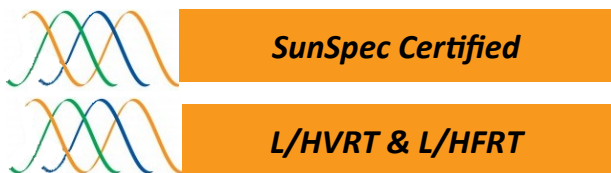
- Designed to be paralleled for high power applications.
- Compact 2.5U 19" rack mount
- Front-side terminations for easy cable routing
- 97% CEC efficiency

### **Integrated**

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

Distributed energy storage system design just got easier. 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.





## OZpcs-RS40 Specifications

### • Reduce Time to Market

- ◆ Easy paralleling allows for quick product scaling
- ◆ 2.5U, 19" rack mount

### • Features

- ◆ Seamless Transfer
- ◆ UL1741-SA Smart Inverter functions
- ◆ 3 & 4 wire transformer-less grid interface
- ◆ Integrated data logging

### • Worldwide Application

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

### • Industry Std Interface

- ◆ SunSpec certified
- ◆ Modbus RS-485

#### 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	2 Wire

#### AC Connection

Max AC Power	40kVA @ 480 V <sub>RMS</sub>
Max AC Current	50Arms
AC Line Voltage	208 - 480 V <sub>RMS</sub>
AC Line Frequency	50 / 60 Hz
Supported Grid Connections	3 wire & 4 wire, grounded neutral
Power Factor	-1 to +1
Current Harmonics	IEEE 1547 Compliant, <3%THD
Typical Efficiency	97 %

#### Environmental

Operating temp	-5°C to 40°C 40°C to 50°C Derated
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	IPC20

#### User Interface

Isolated Communication Link	Modbus RS-485
Register Mapping	SunSpec PCS
Isolated Digital Inputs	<ul style="list-style-type: none"> <li>• Emergency Shutoff</li> <li>• Bias Enable</li> </ul>
Isolated Digital Outputs	<ul style="list-style-type: none"> <li>• User Configurable 1</li> <li>• User Configurable 2</li> </ul>
Indicator LEDs	<ul style="list-style-type: none"> <li>• Fault</li> <li>• Operating</li> <li>• Standby</li> <li>• Power On</li> </ul>
Warranty	5 years standard 5 year warranty extension available

