

40kVA Power Conversion System

Rack Scale™ Series

120/208V | 230/400V | 277/480V 3-phase

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



Intertek

DR-0110 Rev I

11 Continental Boulevard, Merrimack NH 03054

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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