

40kVA Power Conversion System Environmentally Protected Series

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

Distributed energy storage system design just got easier. With a compact, wall-mount form factor, the transformerless OZPCS-EP40 installs outdoors to Li-ion battery enclosures or building walls. Bottom-side terminations simplify interconnect, and the fully parallelable, 40kW architecture permits easy system expansion.

Offering wide 208-480 VAC and 330-820 VDC 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 operation
- Grid-forming operation
- 330-820 VDC input
- Three and four wire transformerless grid interface

Scalable

- Designed to be paralleled for high power applications
- Compact NEMA 3X wall mount
- Bottom-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-SB

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

SUNSPEC CERTIFIED

L/HVRT & L/HFRT







OZPCS-EP40 Specifications

DC CONNECTION

AC CONNECTION

Max AC Power 40kVA @ 480Vrms

Supported Grid Connections Three and four wire, grounded neutral

Power Factor -1 to +1

Current Harmonics..... IEEE 1547 Compliant, <3%THD

ENVIRONMENTAL

Operating Temperature...... -20°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 800 x 550 x 165 mm wall mount

Designed to Comply with UL1741 SB, CA Rule 21 phases 2 & 3, CSA

C22.2#17, IEEE 1547-2018, 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 | Service

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
- NEMA 3X outdoor-rated wallmount design

FEATURES

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

WORLDWIDE APPLICATION

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

INDUSTRY STANDARD INTERFACE

- SunSpec certified
- Modbus RS-485

