

### Power Conversion Series Model: OZPCS-RS35

#### Power Conversion System

(120/208V 3-phase | 120/240V split-phase)

#### Distributed Energy Storage System Design Just Got Easier!

With a compact, 3U form factor, the transformerless OZPCS-RS35 power conversion system installs directly into standard battery racks. Front-side terminations simplify interconnect, and the fully parallelable, 35kW architecture permits easy system expansion.

Optimized for 3-phase and split-phase grid connection and 400-800VDC battery voltage, and with 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-RS35

#### Key Features

- Optimized for 120/208V 3-phase and 120/240V split-phase applications
- Supports grid-tie and grid-forming applications
- Easy paralleling allows for quick product scaling
- Wide AC voltage range
- 60Hz
- UL1741-SB smart inverter functions
- 3- and 4-wire transformerless grid interface
- Integrated data logging
- Industry-standard interface
- SunSpec certified
- Modbus RS-485

## PRODUCT SPECIFICATIONS

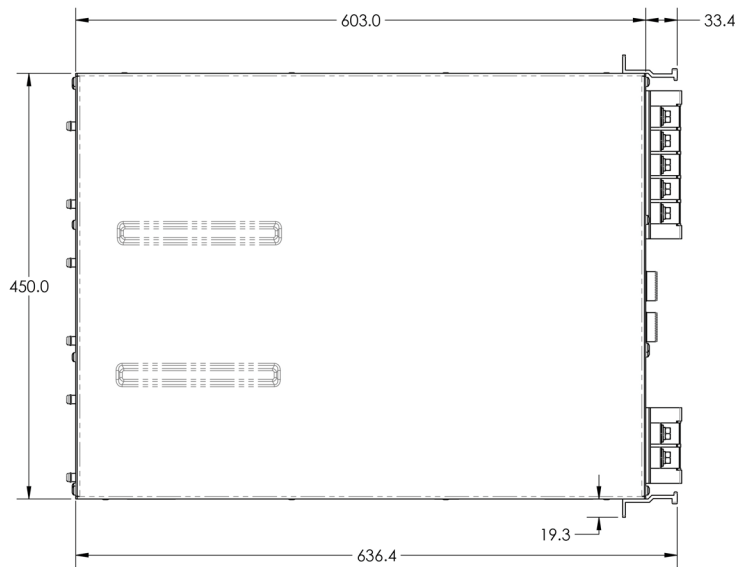
Electrical	
<b>DC Connection</b>	Operating Voltage Range: 380-820 VDC Full Power Voltage Range: 400-800 VDC Max DC Current: +/- 95 A, Max DC Power: 36.5 kW. Wiring Configuration: Two wire
<b>AC Connection</b>	Max AC Power: 35kVA @ 208Vrms Max AC Current: 100Arms Continuous 130Arms 10 seconds max. AC Line Voltage: 120 - 208Vrms 3-phase 120 - 240Vrms split-phase AC Line Frequency: 60 Hz Power Factor: -1 to +1 Current Harmonics: IEEE 1547 Compliant, <3%THD Typical Efficiency: 97%
Environmental	
<b>Operating Temperature</b>	-20°C to 45°C. Derated: 45°C to 55°C. Short term: Full power operation up to 60°C
<b>Operating Humidity</b>	30 - 90% RH (no condensation)
<b>Operating Altitude</b>	1,000m no derating, 1,000m - 3,000m derated
<b>Polution Degree</b>	2 (IEC 1010-1)
<b>Ingress Protection</b>	IP20
<b>Acoustic Noise</b>	75 dBA Max. in all directions, horizontal difference of 3ft.
User Interface	
<b>Isolated Communication Link</b>	Modbus RS-485
<b>Register Mapping</b>	SunSpec PCS
<b>Isolated Digital Inputs</b>	Emergency Shutoff   Bias Enable
<b>Isolated Digital Outputs</b>	User Configurable 1 and 2
<b>Indicator LEDs</b>	4
<b>Warranty</b>	5 years Standard 5 year Warranty Extension Available
Mechanical Specifications	
<b>Cooling</b>	Forced air cooled by internal fan
<b>Weight</b>	97 lbs.
<b>Dimensions</b>	19" rack. 3.0U. See dimensional drawings
<b>Vibration</b>	MIL-810E, method 514.4 test condition I-3.3.1
<b>Shock</b>	Less than 20G, half sine, 11mS, unpacked
<b>Seismic</b>	1G seismic zone (IEEE 693 High Seismic) with seismic spectra of 0.5G

## PRODUCT SPECIFICATIONS (CONT.)

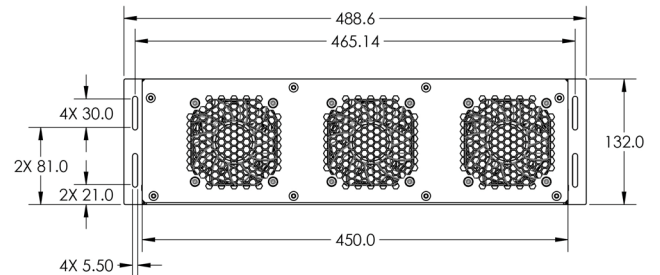
Accuracies	
AC Voltage	$\pm 1\%$ of 208 V <sub>RMS</sub> , or $\pm 2.08$ V <sub>RMS</sub>
DC Voltage	$\pm 2\%$ of 800 V, or $\pm 16.0$ V
AC Current	$\pm 3\%$ of 100 A <sub>RMS</sub> , or $\pm 3.0$ A <sub>RMS</sub>
DC Current	$\pm 3\%$ of 100 A, or $\pm 3.0$ A
Power	$\pm 3\%$ of 35 kW/kVAR, or $\pm 1.05$ kW/kVAR
Power Factor	$\pm 5\%$
Frequency	$\pm 0.01$ Hz
Time	$\pm 0.05$ sec

## DIMENSIONAL DRAWINGS

Top View



Side View



## ORDERING INFORMATION

### Ordering Information

Catalog Number	OZPCS-RS35	Power Conversion System
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