

OCC-4WI

4-Wired Off-Grid Inverter

Connect DC source to Off-Grid AC loads



www.onecyclecontrol.com

BENEFITS

- Hardware enabled control
 - Ultrafast, precise, and stable
- High efficiency
 - Energy saving
- Simple user interface
 - Low maintenance & low service
- Modular plug & play architecture
 - Scalable
- Long life design
 - Low logistics & installation cost
- Light weight minimum raw material usage
 - Environmentally friendly
- Small size
 - Space saving

FEATURES

- One-Cycle Control Technology
- Voltage harmonics < 3%
- Efficiency > 96%
- Leading light weight < 29 kg (65 lbs)
- Leading power density ~20 W/inch³ to 30 W/inch³
- Single unit 40kW to 60kW, scalable to MW

OPTIONS

- Adjustable Voltage
- Adjustable Frequency
- 50, 60, or 400Hz output
- Various output voltages
- Extended Temperature Range
- Condensing Environments

OVERVIEW

OCC-4WI leverages unique patented technology invented at Caltech & University of California Irvine and developed by world leading power-electronic experts under partial sponsorship of U.S. Department of Defense. The Army-Award-Winning OCC-4WI is the first hardware-enabled 3-phase 4-Wire Off-Grid Inverter that connects DC sources to Off-Grid AC loads with high reliability, ultrafast dynamics, and simple user interface, enabling high-quality output power to diverse and imbalanced loads. The OCC-4WI features industry-leading dynamic performance and power density.

APPLICATIONS

- Remote Power
- Mobile Power



	4WI3050A6480/8002IR	4WI3050A5380/6352IR	4WI3100A6208/3652IR
	4WI3075A6480/8002IR	4WI3075A5380/8002IR	
Electrical Specification			
AC Phase / Wires	3-Phase 4-Wire		
AC Freq Range (Hz)	57 - 63	47 - 53	57 - 63
AC Voltage Range (V, rms) Line-to-Line	480	380	208
Max AC Current (A, rms)	75 / 50		100
AC Circuit Breaker Voltage Rating (Vrms)	600		> 250
AC Circuit Breaker Current Rating (Arms)	75 / 50		100
AC Circuit Breaker Interrupt Current (Arms)	6000		
DC Voltage Range (Vdc)	725 - 900	600 - 900	330 - 400
Max DC Current (Adc)	75 / 50		100
Efficiency @ Full Power	>98.3% / >96%		
AC Voltage %THD @ Full Power	< 3%		
Mechanical Specifications			
Weight kg (lb)	29 (65)		
Size (L x W x H) cm (inch)	58 x 45 x 13 (23 x 17.5 x 5.25)		
Bench Mount*	✓		
19" Rack Mount*	✓		
Wall Mount*	✓		
NEMA Type	1		
Environment Specifications			
Operating Temp. (°C)	0 to 40		
Operating Relative Humidity w/o Condensation	0 - 95%		
Storage Temp. (°C)	-10 to 55		
Audible Noise (dBA) @ 1m (3ft)	< 80		
Safety			
UL 508C	Designed		

* Additional accessories may be required for Rack Mount and Wall Mount. Please contact One-Cycle Control, Inc. sales representative for assistance.