One-Cycle Control, Inc.

OCC-HPP
Hybrid Power Processor

Connect what you have. Get what you need.

www.onecyclecontrol.com

BENEFITS

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

FEATURES

- ☑ One-Cycle Control Technology
- ☑ Power factor > 0.99
- ☑ Current harmonics < 3%
- ☑ Efficiency > 97%
- ☑ Stable zero load operation
- ☑ Leading response speed (100s of microsec)
- ☑ Leading light weight < 29 kg (65 lbs)
- ☑ Leading power density ~20 W/inch^3 to 30 W/inch^3
- ☑ Single unit 40kW to 60kW, scalable to MW

OVERVIEW

OCC-HPP 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. OCC-HPP is the first hardware-enabled Hybrid-Power system that converts AC & DC sources or energy storage to desired Off-Grid AC & DC power with high reliability and simple user interface, enabling high-quality output power to diverse loads. OCC-HPP features a modular design and industry-leading power density.

APPLICATIONS

- Hybrid Power
- Disaster Response
- Remote Power
- Mobile Power

OPTIONS

- Various Input & Output Voltages
- Various Input & Output Frequencies
- 50, 60, or 400Hz input and/or output
- Extended Temperature Range
- Condensing Environments

	HPP3050A2208/8002IR	HPP3050A2380/8002IR	HPP3050A2480/8002IR
Mechanical Specifications	**Ruggedized Shock Rack Transport Case**		
Weight kg (lb)	300		
Size (L × W × H) (inch)	40 x 24 x 24		
NEMA Type	3		

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	HPP3050A2208/8002IR	HPP3050A2380/8002IR	HPP3050A2480/8002IR
AC Output Port*	**1-Phase, 3-Phase, or combination**		
AC Voltage	120 / 208V	230 / 380V	277 / 480V
AC Freq Range (Hz)	60 Hz	50 Hz	60 Hz
AC Phase	3-Phase 4-Wire		
Max AC Current (A, rms)	50A		
% THD @ Full Power	3%		
AC Convenience Outlet	Max 15A @ 120 Vac, 1-Phase Duplex Outlet with GFI		
Auto Load Shedding	✓		
HVDC Port:*	**Solar, Wind, or Battery (EV, PHEV)**		
DC Voltage	265 - 720 Vdc		
DC Current	150A		
MPPT Selectable (with PV or Wind)	✓		
AC Input Port:*	**Grid or Generator Input**		
AC Phase	3-Phase 3-Wire		
AC Freq (Hz)	50 / 60 Hz		
AC Voltage (Vrms)	380, 400, 415, 480V		
Max AC Current (Arms)	50A		
LVDC Output*	**Charging & Power Outputs**		
USB (5Vdc)	10 ports @ 2A each		
Accessory (12Vdc)	2 ports @ 5A each		
MIL (24Vdc)	2 ports @ 5A each		
Auto Load Shedding	✓		
Input to Output			
Efficiency	92%		
Environment Specifications			
Operating Temp. (°C)	-30 to +40		
Operating Relative Humidity	0 - 100 %RH; Condensing		
Storage Temp. (°C)	-40 to +55		
Audible Noise (dBA) @ 1m (3ft)	80		
Wash Down	Designed		
Standards			
UL 508C	Designed		
MIL-STD 810G	Designed		

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