

# AMPS HP2™

## Modular Inverter System



Your Power Solutions Partner

- Innovative, inverter system for critical facilities and Telecom applications
- Single, dual and three phase configurations with up to 75kVA/60kW capacity
- 'HP' technology engineered to deliver high efficiency, high system reliability and low total cost of ownership
- 94% efficiency, 15 year design life and module MTBF (Mean Time Between Failures) greater than 200,000 hours results for class-leading TCO (Total Cost of Ownership)
- Intelligent system controller with integrated SNMP for local and remote management of AC power modules, optional rectifier modules, batteries and other peripherals
- Small footprint system in a single 19" box bay rack, freeing up valuable rack and floor space
- Optional 2.4kW rectifier modules convert the AMPS into a modular, standalone, high-reliability UPS

**Introducing the AMPS HP2, Alpha's high performance AC power system offering Telecom grade reliability, 94% efficiency and high power density.** The AMPS HP2 features hot swappable 2.5kVA/ 2.0kW inverter modules and optional 2.4kW rectifier modules that are the building blocks of a highly reliable inverter system utilizing -48Vdc battery bus. Each inverter module can utilize either AC or DC sources or both, eliminating the need for a static transfer switch. Transfer between sources is 100% seamless.

Alpha's CXC-HP controller with its integrated Ethernet/SNMP interface monitors and manages the complete system through a web based GUI and local LCD touch screen. The controller also features email notification via TCP/IP, user definable alarms and data logging, flexible battery management features, and smart peripheral monitoring features.

The AMPS HP2 meets your current and future power needs by allowing you to purchase only the power modules you currently need while having ultimate flexibility to scale up or down, depending on future power needs. Best in class craft access and user friendly connections make the system easy to install, easy to service and easy to upgrade. Furthermore, Alpha's warranty and comprehensive support network for ordering spare modules make AMPS HP2 a smart and dependable investment decision.



# AMPS HP2 Inverter System

STANDARD FEATURES					
<ul style="list-style-type: none"> <li>• System controller with integrated SNMP communications</li> <li>• AC input &amp; output breaker</li> <li>• Integrated maintenance bypass switch</li> <li>• Transient voltage surge suppressor (TVSS)</li> </ul>					
ELECTRICAL					
	AMPS HP2 1-10	AMPS HP2 2-20	AMPS HP2 3-30	AMPS HP2 2-40	AMPS HP2 3-75
<b>System Part Number</b>	0260083-010 w/o Cntrl option (-110)	0260083-020 w/o Cntrl option (-120)	0260083-030 w/o Cntrl option (-130)	0260081-001/003*** (Inverter version) 0260081-002/004**** (UPS version)	0260080-001/003*** (Inverter version) 0260080-002/004**** (UPS version)
<b>Inverter System Max Capacity</b>	10kVA/8kW	20kVA/16kW	30kVA/24kW	40kVA/32kW	75kVA/60kW* or 68kVA/54kW (N+1)
<b>System AC Input Voltage</b>	120Vac Single Phase (2 Wire +G)	120/208Vac 2-Pole (Or) 120/240Vac Split Phase (3 Wire+G)	120/208Vac 3 Phase (4 Wire+ G)	120/208Vac 2-Pole (Or) 120/240Vac Split Phase (3 Wire+G)	120/208Vac 3 Phase (4 Wire+ G)
<b>Inverter Input AC Breaker</b>	100A, 1-Pole	100A, 2-Pole	100A, 3-Pole	200A, 2-Pole	250A, 3-Pole
<b>Efficiency</b>	94% AC-to-AC; 90% DC-to-AC (from 50% to 100% full load resistive)				
<b>Inverter Module Output</b>	2.5kVA/2.0kW	2.5kVA/2.0kW	2.5kVA/2.0kW	2.5kVA/2.0kW	2.5kVA/2.0kW
<b>Inverter Positions</b>	Up to 4 modules	Up to 8 modules	Up to 12 modules	Up to 16 modules	Up to 30 modules
<b>Rectifier System Max Capacity</b>				14.4kW	14.4kW
<b>Rectifier Input AC Breaker</b>				1x 100A Breakers (UPS Version)	1x 60A Breaker (UPS Version)
<b>System DC Input Voltage</b>	-48Vdc	-48Vdc	-48Vdc	-48Vdc	-48Vdc
<b>Rectifier Efficiency</b>				+96%	+96%
<b>Rectifier Module Output</b>				2.4kW	2.4kW
<b>Rectifier Positions</b>				Up to 6 modules	Up to 6 modules
MECHANICAL					
<b>System Dimensions</b>	15.75H x 19W x 23.6D	19.25H x 19W x 23.6D	22.75H x 19W x 23.6D	83.4H x 24W x 28D	83.4H x 24W x 28D
<b>Mounting Configuration</b>	19 or 23" Rack Mountable Front or Mid Mount			Preinstalled in Box Bay	
<b>DC Input Connections</b>	4x 3/8" on 1" Centers per polarity	4x 3/8" on 1" Centers per polarity	4x 3/8" on 1" Centers per polarity	4x 3/8" on 1" Centers per polarity**	4x 3/8" on 1" Centers per polarity**
<b>System Weight</b>	112lbs	128lbs	144lbs	600lbs	700lbs
<b>Inverter Module Weight</b>	11lbs	11lbs	11lbs	11lbs	11lbs
<b>Rectifier Module Weight</b>				3.9lbs	3.9lbs
<b>Controller</b>	CXC-HP	CXC-HP	CXC-HP	CXC-HP	CXC-HP
ENVIRONMENTAL					
<b>Temperature</b>	Operating (full load): -20 to 40°C (-4 to 104°F) Storage: -40 to 70°C (-40 to 158°F)				
<b>Relative Humidity</b>	Up to 95%, non-condensing				
<b>Operating Altitude</b>	Up to 1500m (4921ft) above sea level				
<b>Thermal Dissipation per 2.5kVA/2kW AIM module</b>	437 BTU/hr in AC to AC mode; 758 BTU/hr in DC to AC mode				
AGENCY COMPLIANCE					
<b>Safety</b>	UL1778 (5th Ed); CSA C22.2 No. 107.3-14 UPS General Safety				
<b>EMC</b>	FCC CFR47 Part 15 Class A; ICES-003				



AMPS 3-30 HP2

\*Consult factory for part number  
\*\*8 total with back to back termination

\*\*\*001/002: Top feed AC/DC  
\*\*\*\*003/004: Top feed AC, Bottom feed DC


Alpha Technologies Ltd.

For more information visit [www.alpha.ca](http://www.alpha.ca)

Canada: Burnaby, British Columbia T: 604.436.5900 F: 604.436.1233  
United States: Bellingham, Washington T: 360.647.2360 F: 360.671.493

#0470264-00 Rev D (12/2017)

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