



an EnerSys company

# AMPS HP2

## Rack Mount UPS System



- Innovative, modular, standalone, high-reliability UPS for critical facilities and Telecom applications
- Small footprint system in a single 23" telecom rack, freeing up valuable floor space
- Single, dual and three phase configurations with up to 30kVA/24kW capacity
- Longer design and higher capacity battery options compared to typical UPS
- High recharge capacity with redundancy for added reliability
- Intelligent system controller with integrated SNMP for local and remote management of AC power modules, rectifier modules, batteries and other peripherals
- Zero transfer time between AC and DC sources

### **Introducing the AMPS HP2, Alpha's high performance AC power system offering Telecom grade reliability, 95% efficiency and high power density.**

The AMPS HP2 features hot swappable 2.5kVA/2.0kW inverter modules and 2.4kW rectifier modules that are the building blocks of a highly reliable UPS 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 Rack Mount UPS System

ELECTRICAL					
	10kVA	20kVA	30kVA		
System Part Number	0541012-001	0541013-001	0541014-001		
System Max Capacity	10kVA/8kW	20kVA/16kW	30kVA/24kW		
System Input Voltage	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)		
Inverter Input AC Breaker	100A, 1-Pole	100A, 2-Pole	100A, 3-Pole		
Efficiency	95% AC-to-AC; 91% DC-to-AC (from 50% to 100% full load resistive)				
Inverter Module Output	2.5kVA/2.0kW				
Inverter Positions	Up to 4 modules	Up to 8 modules	Up to 12 modules		
Rectifier System Max Capacity	9.6kW @ 208Vac Input				
Rectifier Input Feed	187-310Vac (4 Feeds Total) @20A*				
System DC Input Voltage	-48Vdc				
Rectifier Efficiency	96%				
Rectifier Module Output	2.4kW				
Rectifier Positions	Up to 4 modules				
Number of Battery Trays	3 with individual battery breaker				
Battery Tray Disconnect Breaker	250A**	250A***	400A***		
Mechanical					
System Dimensions (in.)	84H x 28.1W x 27.8D				
System Weight (w/o modules & batteries)	504lbs	520lbs	536lbs		
Inverter Module Weight	5kg (11lbs)				
Rectifier Module Weight	1.76kg (3.9lbs)				
Controller	CXC-HP				
Environmental					
Temperature	<b>Operating:</b> -20 to 40°C (-4 to 104°F) <b>Storage:</b> -40 to 70°C (-40 to 158°F)				
Relative Humidity	Up to 95%, non-condensing				
Altitude	Up to 1500m (4921ft) above sea level				
Thermal Dissipation per 2.5kVA/2kW AIM Module	360 BTU/hr in AC to AC mode; 675 BTU/hr in DC to AC mode				
Thermal Dissipation per 2.4kW Rectifier Module	<500 BTU per hour (worst case)				
Thermal Dissipation System Fully Populated (worst case)	5,032 BTU/hr	8,064 BTU/hr	11,096 BTU/hr		
Agency Compliance					
Safety	UL1778 (5th Ed); CSA C22.2 No. 107.3-14 UPS General Safety				
EMC	FCC CFR47 Part 15 Class A; ICES-003 Class A				
Runtime					
	4kW	8kW	12kW	16kW	24kW
	AlphaCell 210HP or Equivalent				
1 String	1 hr. 40 min	40 min			
2 Strings	3 hr. 48 min	1 hr. 40 min	59 min	40 min	19 min
3 Strings	6 hr. 02 min	3 hr. 14 min	1 hr. 40 min	1 hr. 10 min	40 min
Constant Power, no aging & design margin @ 25°C down to 1.75VPC Actual runtime may vary based on ambient temperature and age of the battery			*1200W Output @ 120Vac Input **Can support full load with 1 battery string ***Can support full load with 2 battery strings		



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