

# Alpha Inverter Module 2500

For installation in AMPS80 HP Systems



Your Power Solutions Partner

- Revolutionary technology offers 94% efficiency and Telecom-grade reliability
- Hot swappable 2.5kVA/2kW AC power module allows optimal scalability and flexibility
- Separate AC and DC inputs provide application flexibility, reduced total cost of ownership and increased system reliability
- Up to 4 high power density modules per inverter shelf
- Up to 30 modules per 75kVA AMPS80 HP system



**Alpha Inverter Module 2500 provides pure sine wave power to critical loads despite power disturbances such as harmonics, surges, glitches, voltage fluctuations, etc.** Unlike traditional inverters, the Alpha Inverter features AC-AC conversion that double filters and isolates the AC input, and static switching for disturbance free transfers between input sources. The overall efficiency is increased to 94% without compromising the quality and stability of the output wave form. The compact size enables the delivery of 2.5kVA/2kW of AC power in limited space. The modular design allows gradually incrementing system capacity as the load demands increase.

# Power



# Alpha Inverter Module 2500 for installations in AMPS80 HP Systems

Part Number: 014-201-20

## ELECTRICAL MODULE

### AC Output:

Power rating: .....2500VA/2000W  
Waveform: .....Pure sine wave  
Efficiency: .....94% AC-to-AC mode  
Power factor: .....0.8  
Transfer time: .....Zero transfer time  
Nominal voltage: .....120Vac  
Voltage accuracy: .....±2%  
Frequency: .....60Hz (same as input frequency)  
Frequency accuracy: .....0.03%  
THD (resistive load): .....<1.5%  
Transient load recovery time: .....0.4 ms  
Soft start time: .....20s  
Maximum crest factor at nominal power: .....3.5  
Short circuit overload capacity: .....10 x In for 20msec (AC-to-AC mode)  
Short term overload capacity: .....150% for 5 seconds  
Permanent overload capacity: .....110%  
MTBF .....>230,000hrs

### AC Input:

Nominal AC voltage: .....120Vac  
AC voltage range: .....90 - 140Vac  
Input power factor: .....>99%  
Synchronization range: .....57 - 63Hz

### DC Input:

Nominal DC voltage: .....48Vdc  
Maximum DC voltage range (max): .....40 - 60Vdc (user adjustable)  
Voltage ripple: .....<2MV/<38DBRNC

## MECHANICAL

### Dimensions:

mm: .....88.9H x 102W x 435D  
inches: .....3.5H x 4W x 17.13D

Weight: .....5kg (11lbs)

## ENVIRONMENTAL

### Temperature:

Operating: .....-20 to 40°C (-4 to 104°F)  
Storage: .....-40 to 70°C (-40 to 158°F)

Relative humidity: .....Up to 95%, non-condensing

Operating altitude: .....Up to 1500m (4900ft) above sea level

Heat dissipation: .....437BTU per hour in AC-to-AC mode;  
758BTU per hour in DC-to-AC mode

## AGENCY COMPLIANCE

Safety: .....UL 60950

Immunity: .....EN 61000-4

Emissions: .....EN 55022 (Class A)

RoHS: .....Compliant

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: 360.671.4936

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