

INVERTER MODULE 1500W

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- › Revolutionary technology offers 93% efficiency and Telecom-grade reliability
- › Hot swappable 1.5kVA/1.2kW AC power module allows optimal scalability and flexibility
- › Separate AC and DC inputs provide application flexibility, total cost of ownership reduction and increased system reliability
- › Up to 4 high power density modules per inverter shelf
- › Up to 16 modules in 24kVA system
- › Dual Input Sources (AC & DC) with wide AC input range 150Vac to 265Vac
- › Nominal DC Inputs : 48V
- › Compact Design
- › Up to 32 modules in parallel
- › Supported by Compas Controller



Alpha Inverter Module 1500 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 93% without compromising the quality and stability of the output wave form. The modular design allows gradually incrementing the system capacity as the load demands increase up to 24kVA.

Electrical

AC Output:

Power rating:	1500VA/1200W
Waveform:	Pure sine wave
Efficiency:	91-95% depending on conditions
Transfer time:	Zero transfer time
Nominal voltage:	230Vac 1P or 3P
Voltage accuracy:	±2%
Frequency:	50-60Hz (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 ρ :	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%

AC Input:

Nominal AC voltage:	230Vac 1P or 3P
AC voltage range:	150 – 265Vac
Input power factor:	>99%
Synchronization range:	50Hz (47-53) or 60Hz (57-63)

DC Input:

Nominal DC voltage:	48Vdc
Maximum DC voltage range (max):	40 – 58Vdc (user adjustable)
Voltage ripple:	<2mV

MTBF: >230,000hrs

Mechanical

Dimensions:

mm:	88.9H x 102W x 300D
inches:	3.5H x 4W x 12.5D
Weight:	2.4kg (5.3lbs)

Standards

Safety:	UL 60950
Immunity:	EN 61000-4
Emissions:	EN 55022 (Class A)
RoHS:	Compliant

Environment

Temperature:

Operating: -20 to 50°C

Storage: -40 to 70°C

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

Standard Part Numbers

Media: Inverter Module 1500W

Related Items

Solution:

[Inverter System with 1500VA modules](#): Inverter System with 1500VA modules