

# INV-1500

## 1500 VA inverter



Modular design and years of experience in solid state inverter design provide the formula for the efficient low-cost construction of the INV1500.

Drawing from over 50 years' experience, Securaplane's designers have developed a modular design with a low EMI signature and proven electronic and magnetic technology. Power FET transistors provide significantly higher efficiency than earlier transistor devices, reducing heat within the inverter which increases reliability.

Fault protection on our inverters includes over and under frequency, over and under input and output voltage, over temperature, input time delay and remote fault indication. When a fault is detected for more than five seconds the protection mechanisms will cause the inverter to shut down.

Securaplane's power conversion products achieve industry-leading MTBF levels, power quality, electromagnetic compatibility and lightning rejection which are necessary to support more electric and composite fuselage development trends in commercial aviation.

### Key features

- Cooling features
  - Cold plate induction
  - Natural convection
  - Internal forced air
- Fault protection
  - Over/under frequency
  - Over/under output voltage
  - Over/under input voltage
  - Over temperature
  - Input time delay

### Approved installations

- Hawker 800 family

### Environmental

- Operating temperature
  - 55°C to 71°C
- Storage temperature
  - 55°C to 85°C
- Operating altitude
  - Sea level to 55,000 ft

## Securaplane

Our product competencies and services:

Aircraft security systems | Airborne video cameras | Aircraft batteries | Battery chargers | **Inverters** | Converters | Wireless integration



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## Specifications

### Part number

100-1600-04

### Size

12.50 x 5.90 x 7.03 inches  
(318 x 150 x 179 mm) max

### Weight

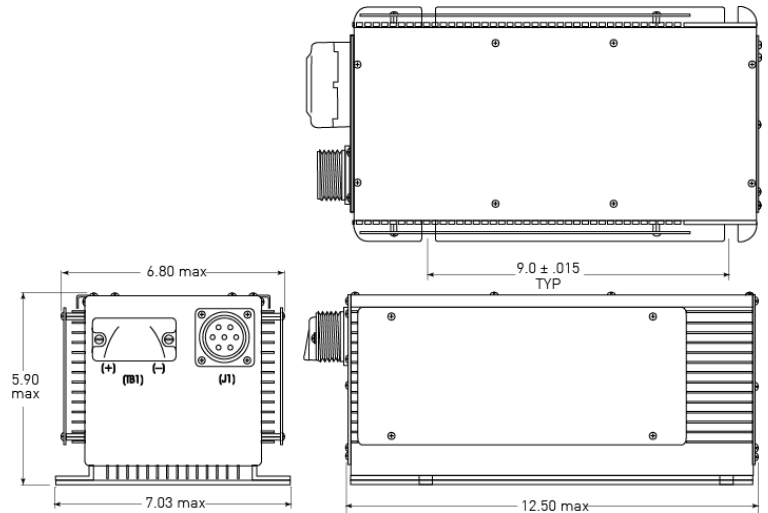
23 lbs(10.43 kg) max

### J1 connector

MS3452L24-2S

### TB1 connector

MS25045-1 (terminal block)  
MS25046-1 (cover assembly)



## Power characteristics

### Input

- Voltage
  - Rated voltage: 26-30 VDC
  - Extended voltage: 20-36 VDC
- Typical current
 

28V at 1500 VA	67A
24V at 1500 VA	78A
20V at 1350 VA	84A
28V at 2250 VA	100A
28V at no load	6A

### Output

- Voltage
  - Voltage output one: 115 VAC +5%/-7%
  - Voltage output two: 26 VAC + 8%/-7%

Note—the 26 VAC output rating is 500VA which can be provided simultaneously with the 115 VAC output provided the total output power loading does not exceed 1500VA
- Power
  - Continuous at rated input 1500VA
  - Continuous at 20VDC input 1350VA
  - Two hours at rated input 1650VA
  - Five minutes at rated input 2250VA
- Frequency: 400Hz ± 1%
- Power factor: 0.8 lag to 0.95 lead
  - Note—unit will not be damaged by any power factor
- Distortion: 2.5% typical under all load and line conditions including extended input voltage range
- Current: rated @ 115VAC 13.0A  
rated @ 26VAC 19.2A (500V-A)

## Securaplane

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