

Inverters

Start power unit



Building on our vast experience developing DC to AC power conversion, Securaplane's latest inverter design, the start power unit (SPU), is now flying on the Boeing 787 Dreamliner.

Using the latest inverter technologies such as power MOSFETs/IGBTs and planar magnetics, the SPU achieves seven times the power density of a traditional DC to AC inverter while still using conventional cooling techniques.

Fault protection on our inverters includes over and under frequency, over and under output voltage, over and under input voltage, over temperature, input time delay and remote fault indication.

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

- **High power density**
Seven times the power density of a traditional DC to AC inverter
- **Fault protection**
Over and under frequency
Over and under output voltage
Over and under input voltage
Over temperature
Input time delay
Remote fault indication

Applications

- APU starting

Approved installations

- Boeing 787 Dreamliner family

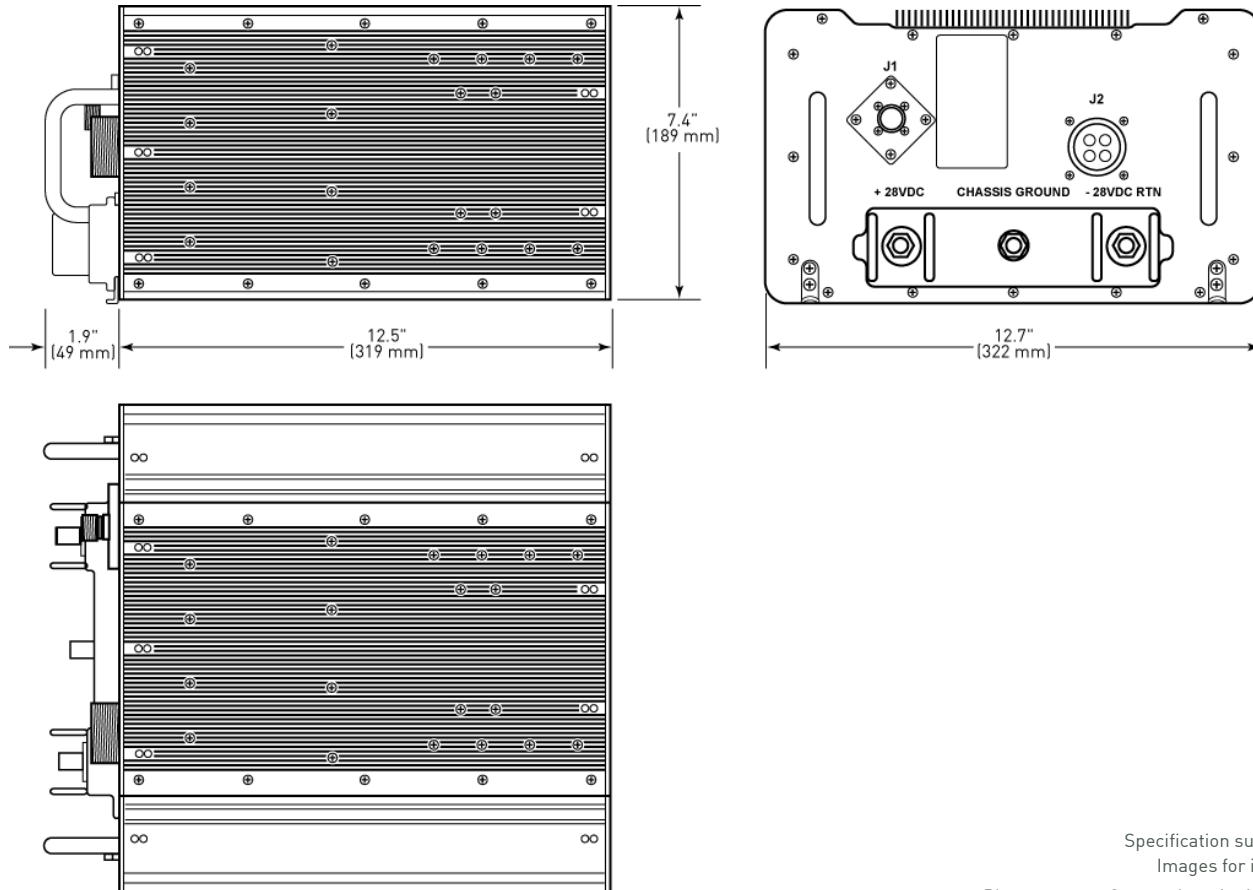
Securaplane

Our product competencies and services:
Aircraft security systems | Airborne video cameras | Aircraft batteries | Battery chargers | Inverters | Converters | Wireless integration

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Specifications



Specification subject to change.
Images for illustration only.
Please contact Securaplane for installation data.

Physical characteristics

Part number

100-2609-0x

Size

14.46 x 12.67 x 7.42 inches [367 x 322 x 189 mm] max

Weight

38.5 lbs.(18.15 kg) max

J1 connector

IAW BACC63CU9-35PN

J2 connector

IAW MS3450L24-22S

Power characteristics

Input power

- 28 VDC nominal
- 605 Amps maximum current at nominal voltage

Output power

- Three phase 200VAC, 750 Hz
- 40 Amps per phase (nominal)
- 13.5 kW maximum

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