

## Mainship battery chargers

# Charging ahead



Securaplane's battery chargers combine advanced power conversion with established battery charging technology, offering the highest input power quality and value-to-weight-and-size ratio in its class.

Standard production on Gulfstream G350 and G450, CRJ 900 and 1000, Challenger 605 and 800 series, Securaplane chargers reduce battery maintenance while providing significant data for battery and charger maintenance.

## Key features

- **Patented charging method**  
Battery receives the optimum amount of charge for any temperature condition and state of charge.
- **Reliability**  
Proven high-reliability fan improves charger reliability, while significantly decreasing weight and volume.
- **Fault storage**  
Charger stores every detected fault in permanent memory to eliminate the guesswork in identifying and solving battery/charger system problems.
- **Alpha-numeric display**  
Status and faults shown on self-contained eight-character display

## Models and applications

- **BC-1302**  
DC-10, MD-11, MD-10
- **BC-1305**  
DC-9, MD-80 series
- **BC-1306, BC-1309**  
Bombardier CRJ series, Challenger 605 and 800 series
- **BC-1307**  
Gulfstream 350/450
- **BC-1311**  
Gulfstream 650

## 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

<b>Application</b>	DC-9, MD-80 series	DC-10, MD-11, MD-10	Bombardier CRJ series, Challenger 605 and 800 series	Gulfstream 350/450	Gulfstream 650
<b>Model</b>	BC-1303, BC-1305	BC-1302	BC-1306, BC-1309	BC-1307	BC-1311
<b>Part no</b>	100-1059-01 (BC-1303) 100-1042-01 (BC-1305)	100-0212-01	100-1084-01 (BC-1306) 100-2668-01 (BC-1309)	100-1104-01	100-1311-01
<b>Dimensions</b>	5.51" x 4.95" x 9.1"	5.51" x 4.95" x 9.1"	4.3" x 4.9" x 8.9"	4.3" x 5.6" x 9.9"	4.3" x 5.6" x 9.9"
<b>Weight</b>	7.5 lbs	7.5 lbs	5.1 lbs	5.5 lbs	5.5 lbs
<b>Connectors</b>	<ul style="list-style-type: none"> <li>MS27335T14A18P</li> <li>MS3452W20-14P</li> </ul>	<ul style="list-style-type: none"> <li>MS85528/2-22-A01-A</li> <li>Bussmann C2808-1</li> <li>Bussmann C4044</li> </ul>	<ul style="list-style-type: none"> <li>MS27335T14A18P</li> <li>MS3452W20-14P</li> </ul>	<ul style="list-style-type: none"> <li>MS27335T14A18P</li> <li>MS3452W20-14P</li> </ul>	<ul style="list-style-type: none"> <li>MS27335T14A18P</li> <li>MS3452W20-14P</li> </ul>
<b>Input power requirements</b> (All models)	<ul style="list-style-type: none"> <li>Aircraft 115VAC 3 Phase 400 HZ (102-124 VAC Operating)</li> <li>Efficiency 85%-89%</li> <li>Low input power distortion</li> </ul>				
<b>Maximum output</b> (All models)	<ul style="list-style-type: none"> <li>40 Amps at 30V</li> <li>36VDC at 33A</li> </ul>				
<b>Battery types supported</b>	<ul style="list-style-type: none"> <li>Ni-Cad</li> <li>ULM Ni-Cad</li> <li>Hawker sealed lead acid (BC-1305 only)</li> </ul>	<ul style="list-style-type: none"> <li>Ni-Cad</li> <li>ULM Ni-Cad</li> </ul>	<ul style="list-style-type: none"> <li>Ni-Cad</li> <li>ULM Ni-Cad</li> <li>Hawker sealed lead acid</li> </ul>	<ul style="list-style-type: none"> <li>Hawker sealed lead acid</li> </ul>	<ul style="list-style-type: none"> <li>Securaplane Li-ion</li> <li>Ni-Cad</li> <li>ULM Ni-Cad</li> <li>Hawker sealed lead acid</li> </ul>

### Alpha-numeric LED display

BC-1300 series chargers incorporate an eight-character LED display to communicate charger and battery system status at a glance.

#### Charger faults

- Fan speed
- CPU
- Temperature
- Voltage
- Current
- Power
- Stored fault history

#### Battery faults

- Abnormal temperature
- Temperature sensor circuit
- Cell unbalance sensor unit

#### LED display

- Eight-character alpha-numeric

#### Diagnostics

- Self test
- Output voltage
- Output current
- Operating hours
- Temperatures
- Power

#### Time

- Date
- Software revision

#### Charge mode

- Bulk charge mode
- Topping charge mode
- Trickle charge mode



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