

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 604 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

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

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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