8-930 BATTERY CHARGER/CONTROLLER

TECHNICAL FEATURES

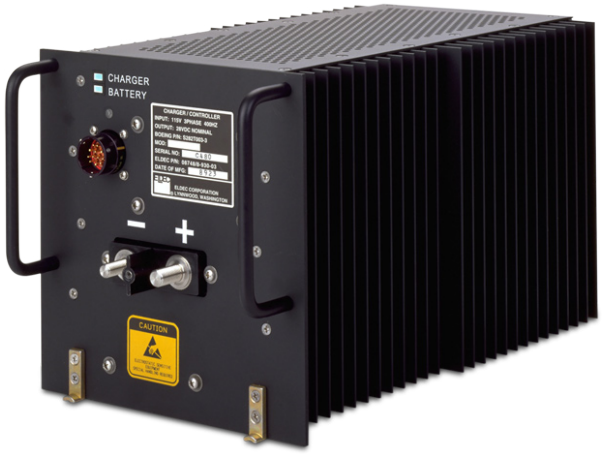
- 115 Vac, 3-phase, 400 Hz input
- 27.75 Vdc output
- 65A output
- Battery Configuration
  - 20 Cell Vented or Ultra Low Maintenance Nickel Cadmium
  - 40/48 Ampere Hours
  - Battery Part Number: ELDEC BA06 or BA35 Adaptable to other battery sizes and types

PERFORMANCE

- Developed to meet RTCA/DO-160

Applications

- Boeing 737-600, -700, -800 (upgrade to existing 4-254)
- Boeing 747-400, 800
- Boeing 757, 767



DESCRIPTION

Since 1958, Crane Aerospace & Electronics has led the way in the development of reliable aircraft AC-DC power conversion. Our line of transformer rectifier units provide affordable, efficient, light weight and reliable conversion while meeting today's new stringent power quality requirements.

As one of the world's leading supplier of Battery Chargers, Transformer Rectifier Units (TRUs) and Auto Transformer Rectifier Units (ATRUs) for commercial aircraft, ELDEC offers you field-proven, exceptionally reliable solutions. We have thousands of units in the field for a wide variety of aircraft programs. Options for free, forced or fan cooling, Long-life field-proven fan, and clean output power, ensuring compatibility with avionics loads.

Our companies are known for their technical strength, proven product reliability, innovative solutions and overall value. Each company is ISO9001/AS9100 certified and committed to Operational Excellence and world-class processes. From application engineering, through design and manufacturing, Crane Aerospace & Electronics offers a comprehensive approach to product specification, design certification and service.

Crane Aerospace & Electronics offers a complete line of power conversion products. Not sure about which type of power conversion is best for your application? Please give us a call or email – our engineers have a great deal of experience in many types of power conversion methods and will help select the right one for you. Also, be sure to check out our web site at www.craneae.com for more detailed information.

Crane Aerospace & Electronics
Power Solutions - ELDEC
16700 13th Avenue West, Lynnwood, WA 98037
+1.800.464.0261 • electronics@crane-eg.com
www.craneae.com/power

8-930 BATTERY CHARGER/CONTROLLER

INPUT

Input Voltage:	115/200 V ac, 3 phase 4 wire
Input Frequency:	400 Hz nominal
Power Factor:	<0.90
Efficiency:	>89%
Input Current THD:	<18%

OUTPUT

Output Voltage:	27.75 Vdc temperature compensated
Output Current:	65 Amps
Output Ripple:	≤ 2.0 Vp-p

INTERFACE

Dimensions: (modified ARINC 600-6MCU)

Length:	14.59 inches (370.58 mm)
Width:	7.64 inches (194.05 mm)
Height:	7.64 inches (194.05 mm)
Weight:	19 lbs (8.62 kg)
Cooling:	1.25 lb/min. expected: self protected for loss of cooling air

Connector:

Input:	BACC45FN14-12P

Terminal Block:

Positive:	3/8-24 UNF-2A Stud
Negative:	5/16-24 UNF-2A Stud

Fault Indications: (via front panel LED):	Battery Overtemperature Battery Disconnect Open/Short Temperature Sensor Charger Failure LRU Fault Isolation
Charge Mode:	Constant Current/ Constant Voltage
Mode Control:	Charge Mode/TRU Mode
Charge Method:	Proportional Timed Overcharge

ENVIRONMENTAL

Operating Temperature:	RTCA/DO-160, Category F2
Ground Temperature:	RTCA/DO-160, Category F2
Temperature Variation:	RTCA/DO-160, Category A
Altitude:	RTCA/DO-160, Category A1
Decompression Altitude:	45,000 feet
Humidity:	RTCA/DO-160, Category B
Operational Shock & Crash Safety:	RTCA/DO-160, Paragraph 7.3
Vibration:	D6-81926, Zone 4, Category C
Explosion Proofness:	MIL-STD-810, Procedure 1. Surface temperature <450°F
Sand and Dust:	RTCA/DO-160, Paragraph 12, Category D
Fungus Resistance:	RTCA/DO_160, Paragraph 13, Cateogory F
Fireworthiness:	FAR 25.853, 25.863, 25.869 & Part 1 of Appendix F
Charge Mode:	Constant Current/Constant Voltage
Mode Control:	Charge Mode/TRU Mode
Charge Method:	Proportional Timed Overcharge
Acceleration	6.0g upward, 12.0g downward, 9.0g forward, aft or sidewarys in either direction
MTBf:	>30,000 flight hours

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PACKAGE OUTLINE