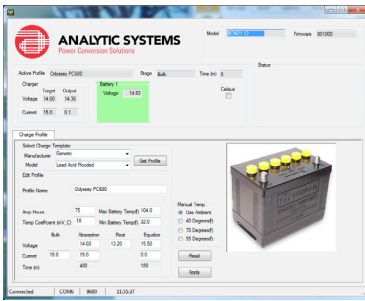
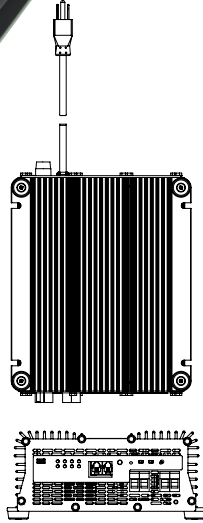


ANALYTIC SYSTEMS

Power Conversion Solutions



PowerWizard Software



MODEL IBC320

INTELLIGENT BATTERY CHARGER

Benefits

- Improved battery life
- More complete battery charging for improved battery runtime
- No interference with radios or other sensitive electronics
- Ultra Quiet Operation (no fans)
- Simple Operation
- Can operate as a Power Supply
- Rugged & Reliable
- Most efficient use of available AC power

Design Features

- State of the art Digital Signal Processor
- LLC resonant converter technology
- Synchronous Rectification
- Worldwide Universal AC Input with PFC
- Advanced Charging Algorithms
- Programmable from front panel
- Includes 'PowerWizard' software for advanced programming through standard USB port
- Military-Grade extrusion ensures a high tolerance for shock and vibration
- High Efficiency
- Ultra-quiet low EMI operation
- Can be permanently connected to batteries
- Custom Battery Voltages
- User selectable 2 or 3 stage charging profile
- User selectable Float or Rest 'End of Charge'
- Temperature compensated charging
- Battery Over-temperature shutdown & recovery
- Charger Over-temperature shutdown & recovery
- Audible & visual indicators for operation and errors
- Output short circuit protection
- Output over-voltage protection
- Inrush Current Limiting
- Worldwide AC Input
- Five year warranty



Description

The IBC320 Intelligent Battery Charger provides up to 300 watts to charge a 12, 24, 36 or 48 volt, one or two bank battery system (batteries must share a common ground).

Eight dual color LEDs and an audible alert clearly indicate charging levels and stages as well as indicating faults with either the charger or the batteries. The charger is preprogrammed for three standard types of Lead Acid batteries; Flooded (traditional Lead Acid), AGM (Absorbed Glass Mat Lead Acid) and Gel or VRLA (Valve Regulated Lead Acid). It also has a 4th that is preset for a typical Lithium Ion battery.

Any of the 4 charging profiles can be adjusted to suit a specific make and model of battery using the PowerWizard software that is free to download from www.analyticssystem.com. Power Wizard also includes monitoring, graphing and firmware updating capabilities through the standard USB port.

This charger uses Power Factor Correction so it will work from any standard AC voltage anywhere in the world, and advanced power switching technology for high efficiency and low EMI to ensure that it does not disturb sensitive voice or data RF communication equipment.

Safety features include charger and battery over temperature shutdown, current limiting, short circuit protection, input under voltage shutdown and output over-voltage protection, all with automatic recovery.

We are so confident that you will get years of reliable service from this Intelligent Battery Charger that we have backed it with a Five Year Warranty!

Applications

- Marine (Commercial and Recreational)
- Industrial
- Military and DHS
- Electric Utilities and Substations
- OEM Applications
- Emergency Power Backup (UPS)
- Security Systems

An ISO9001 and AS9100 Registered Company Battery Chargers • Inverters • Power Supplies • Voltage Converters

8128 River Way, Delta B.C. V4G 1K5 Canada T. 604.946.9981 F. 604.946.9983 TF. 800.668.3884 (US/CANADA)

www.analyticssystem.com

MODEL IBC320 INTELLIGENT BATTERY CHARGER

Input	
Volts	85 - 265VAC, 1 Phase, 45 - 65 Hz
Current (max) *	4 Amps w/ Inrush Protection
Input Fuse	AGC 5 Amp
Power Factor	>0.99 at Full Load
Efficiency	>90% at Full Load
*	Maximum Input Current Specified at 85 VAC

Output				
Nominal Voltage	12 VDC	24 VDC	36 VDC	48 VDC
Voltage Range **	12.0 - 15.5 VDC	24.0 - 31.0 VDC	36.0 - 46.5 VDC	48.0 - 62.0 VDC
Output Current	20 Amps	10 Amps	7 Amps	5 Amps
Recommended Battery Amp-Hours	100	50	37	25
Standard Temperature Compensation	-15mV/C	-30mV/C	-45mV/C	-60mV/C
Charging Stages	2 or 3 stage user selectable			
End of Charge	Float or Rest user selectable			
**	Actual Output Voltage determined by User Settings or by Charger Firmware			

Mechanical	
Dimensions	9.5"/24.1cm Long x 8.0"/20.3cm Wide x 3.25"/8.3cm High
Clearance	1.0"/2.5cm all around
Weight	6.2 lb / 2.8 kg
Material and Finish	Marine Grade Black Anodized Aluminum with 18-8 Stainless Fasteners
Mounting	Wall or Shelf Mount
Connections	Integrated Color Coded Terminal Blocks

Environmental and Safety	
Operating Temperature Range	-25 to +40 C (-40 to +55 C Optional)
Storage Temperature Range	-55 to +85 C
Humidity	0 - 95% Relative Humidity (non-condensing) with standard conformal coating
Emissions	Meets FCC Part 15, Class B
Isolation	> 1500 VDC Input-Output, Input-Case, Output-Case
Audible Noise	None
Duty Cycle	Continuous
Warranty	Five Years Parts and Labor
Safety	Built to meet ABS, CE, UL458 and CSA 22.2.107.1

Options	
Extra filtering to meet MIL461F (lengthens chassis)	Dry Contact Output Fail Relay
Wide Temperature -40 - +55 Operation	Remote Display and Control
Digital Display of Voltage and Current (lengthens chassis)	Sealed to IP67 (with derating)
High Vibration Rugged Duty	Carrying Handle



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