

### PRODUCT OVERVIEW



The IBC320 PRO series chargers are fully Digital Signal Processor controlled and feature Universal Input Voltage from 85 to 265 VAC at 50 or 60 Hz with Active Power Factor Correction for the most efficient use of AC power.

Four charging profiles are available with easy front panel selection to handle most types of batteries from traditional Lead Acid, Sealed Lead Acid and even Lithium Ion.

#### PRO Features:

- Digital display of voltage and current
- Dry contact output fail relay

#### Available models

12V	24V	32V	48V
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#### Applications



**TECHNICAL SPECIFICATIONS**

INPUT	
<b>Volts</b>	85 - 265 VAC, 1 Phase, 45 - 65 Hz
<b>Current (max) *</b>	4 Amps with inrush protection
<b>Input Fuse</b>	AGC 5 Amp
<b>Power Factor</b>	>0.99 at full load
<b>Efficiency</b>	>90% at full load

\* Maximum Input Current Specified at 105 VAC, output power derated below 105 VAC

OUTPUT				
<b>Output Volts Nominal</b>	12 VDC	24 VDC	32 VDC	48 VDC
<b>VDC Range **</b>	12.0-15.5	24.0-31.0	32.0-41.3	48.0-62.0
<b>Output Current</b>	20 Amps	10 Amps	8 Amps	5 Amps
<b>Recommended Battery Amp-Hours</b>	100	50	40	25
<b>Standard Temp Compensation</b>	-15 mV/C	-30 mV/C	-40 mV/C	-60 mV/C
<b>Battery Banks</b>	1 or 2 banks with common negative			
<b>Charging Stages</b>	2 or 3 stage user selectable			
<b>End of Charge</b>	Float or rest user selectable			

\*\* Actual Output Voltage determined by User Settings or by Charger Firmware

MECHANICAL	
<b>Dimensions</b>	13.6 in / 34.5 cm Long x 8.0 in / 20.3 cm Wide x 3.25 in / 8.3 cm High
<b>Clearance</b>	1.0 in / 2.5 cm all around
<b>Weight</b>	7.5 lb / 3.4 kg
<b>Material and Finish</b>	Marine grade black anodized aluminum with 18-8 stainless fasteners
<b>Mounting</b>	Wall or shelf mount
<b>Connections</b>	Integrated color coded terminal blocks

ENVIRONMENTAL AND SAFETY	
<b>Operating Temperature Range</b>	-25°C to +40°C @ maximum output. Derate Linearly 2.5% per °C from 40°C (Optional -40°C to +55°C wide temperature range available)
<b>Storage Temperature Range</b>	-55°C to +85°C
<b>Humidity</b>	0 - 95% relative humidity (non-condensing) with standard conformal coating
<b>Emissions</b>	Meets FCC Part 15, Class B
<b>Ingress Protection</b>	IP52, dust and dripping water protected
<b>Isolation</b>	>1500 VDC Input-Output, Input-Case, Output-Case
<b>Audible Noise</b>	None
<b>Duty Cycle</b>	Continuous
<b>Warranty</b>	Five years
<b>Safety</b>	Built to meet ABS, CE, UL458 and CSA 22.2.107.1

**OPTIONS**

- Ruggedized and wide temperature
- Canbus / RS232 / remote control port
- Waterproof - sealed to IP66
- UL/CSA special inspection