

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
-----	-----	-----	-----

Applications



TECHNICAL SPECIFICATIONS

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

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

OUTPUT				
Output Volts Nominal	12 VDC	24 VDC	32 VDC	48 VDC
VDC Range **	12.0-15.5	24.0-31.0	32.0-41.3	48.0-62.0
Output Current	20 Amps	10 Amps	8 Amps	5 Amps
Recommended Battery Amp-Hours	100	50	40	25
Standard Temp Compensation	-15 mV/C	-30 mV/C	-40 mV/C	-60 mV/C
Battery Banks	1 or 2 banks with common negative			
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	13.6 in / 34.5 cm Long x 8.0 in / 20.3 cm Wide x 3.25 in / 8.3 cm High
Clearance	1.0 in / 2.5 cm all around
Weight	7.5 lb / 3.4 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°C to +40°C @ maximum output. Derate Linearly 2.5% per °C from 40°C (Optional -40°C wide temperature range available)
Storage Temperature Range	-55°C to +85°C
Humidity	0 - 95% relative humidity (non-condensing) with standard conformal coating
Emissions	Meets FCC Part 15, Class B
Ingress Protection	IP52, dust and dripping water protected
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

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