

ANALYTIC SYSTEMS
Power Conversion Solutions

**INTELLIGENT
BATTERY CHARGER**

IBC320MW



FRONT

Digital signal processor controlled

Billet machined & O-ring sealed front and rear panels

IP66 rated watertight design

Waterproof -40°C rated front panel controls

Computer programmable

Waterproof military connectors and fuse

Input and output EMC filters



BACK

2 YEAR WARRANTY



IBC320MW INTELLIGENT BATTERY CHARGER

The IBC320MW 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, with IP66 construction, wide temperature operation and MIL461 compliant.

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.

The free to download 'Power Wizard' software allows full programming and selection of each of the four profiles from a laptop computer. 300 and 1000 Watt models for 1 or 2 banks of 12, 24, 28, 32, 36 or 48 Volt batteries.

Available models

12V 24V 28V 32V 36V 48V

Applications



IBC320MW | INTELLIGENT BATTERY CHARGER

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

Nominal Voltage	12 VDC	24 VDC	28 VDC	32 VDC	36 VDC	48 VDC
Voltage Range **	12.0-15.5 VDC	24.0-31.0 VDC	28.0-36.2 VDC	32.0-41.3 VDC	36.0-46.5 VDC	48.0-62.0 VDC
Output Current	20 Amps	10 Amps	9 Amps	8 Amps	7 Amps	5 Amps
Recommended Battery Amp-Hours	100	50	45	40	33	25
Standard Temp Compensation	-15 mV/C	-30 mV/C	-35 mV/C	-40 mV/C	-45 mV/C	-60 mV/C
Battery Banks	1 or 2 Battery 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	15.16 in / 38.51 cm Long x 8.0 in / 20.3 cm Wide x 3.23 in / 8.2 cm High
Clearance	1.0 in / 2.5 cm all around
Weight	10.8 lb / 4.9 kg
Material and Finish	Marine Grade Black Anodized Aluminum with 18-8 Stainless Fasteners
Mounting	Wall or Shelf Mount
Connections	AC Input - MS3112E12-3P and DC Output - MS3112E14-5S

ENVIRONMENTAL AND SAFETY

Operating Temperature Range	-40°C to +55°C
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	IP66, Dust and Watertight Protected
Isolation	>1500 VDC Input-Output, Input-Case, Output-Case
Audible Noise	None
Duty Cycle	Continuous
Warranty	Two Years Parts and Labor
Safety	Built to meet ABS, CE, UL458 and CSA 22.2.107.1

OPTIONS

COTS - MIL461F and MIL810G in-house

MIL-STD-461F

Stand alone test & report

MIL-STD-810G

Stand alone test & report

Open frame

(No chassis, just heat sink bars)

Portable

(Carrying handle, rubber feet)

European ROHS compliant

(Lead Free Manufactured)

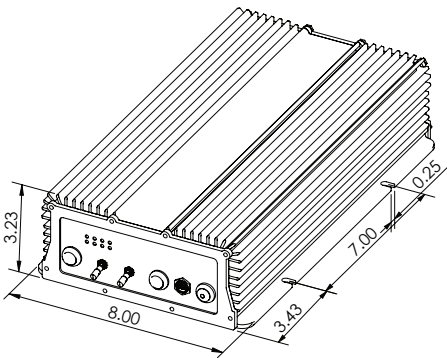
Safety special inspection (CSA/UL)

Integrated digital volt/ammeter

IP67 water tight chassis (includes test and report for each unit)

Custom input/output available

DIMENSIONS



ANALYTIC SYSTEMS
Power Conversion Solutions



www.tecknowledgey.com



info@tecknowledgey.com



914.739.4499



Tecknowledgey Inc.
8 John Walsh Blvd
Peekskill, NY 10566 USA