



Coronation Road, Cressex Business Park, High Wycombe, Bucks HP12 3TA, United Kingdom
Telephone: +44 (0)1494 753500 Fax: +44 (0)1494 753501
sales@youngelectronics.com www.yegpowerline.co.uk

Intelligent battery charger (IBC) series



Introduction

The YEG Powerline IBC Series is suitable for all types of lead acid batteries. Charging is through a 3 stage system. The first stage is the bulk charging phase. This state is indicated when the yellow LED is illuminated and continues through to stage 2 of the process. When the current is below 10% of the maximum output, the charger automatically adjusts to reduce the output voltage to reliably top up the battery. At this stage the green LED is illuminated indicating that the battery is fully charged. Should the voltage level fall below the nominal values during the maintenance stage, the charger will go back to step one and repeat the process.

The IBC charger is a rugged, fully protected unit (IP65) that can be used in a variety of applications including:

- Trucks
- Off road vehicles
- Boats,
- Caravans
- Depots,
- Workshops
- Many industrial applications

Product Coding

The product code is developed as follows taking the IBC 230-12 108 as an example:

IBC	Intelligent Battery Charger
230	230Vac Input
-12	12V nominal – suitable for charging 12V lead acid batteries
108	108W Capacity Unit

IBC Series selection table

Max Load	Nominal Voltage	Part Number	Size L x W x H	Weight
7A	12	IBC 230-12 108	185 x 87 x 45mm	850g
7A	12	IBC 115/ 230-12 108	185 x 87 x 45mm	850g
3A	24	IBC 230-24 108	185 x 87 x 45mm	850g
17A	12	IBC 230-12 240	185 x 87 x 57mm	1450g
12A	24	IBC 230-24 300	185 x 87 x 57mm	1450g

Technical Data

Input voltage Range	180Vac – 270Vac (reduced output below 170Vac)
Input over voltage	285Vac
Output voltage (12V units)	13.5Vdc – 14.5Vdc according to charge cycle (STD 14.4)
Output voltage (24V units)	26.8Vdc – 29.0Vdc according to charge cycle (STD 28.8)
Power conversion efficiency	Typically 88-91%
Off load current	<2mA
Operating temperature	-30°C - +55°C
Storage temperature	-55°C - +85°C
Casework	Anodised aluminium, dust, water and impact protected to IP65
Connections	Input - IEC lead, Output – Flying lead
Output indicators	Yellow and green LEDs according to cycle
Mounting method	By 4 screws
Safe area protection: Over current	Yes, current limited to maximum ratings each model
Over heat	Yes, internal control to reduce output in over temperature situations



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Transients	Yes, protection both on input and output
Wrong polarity protection	Yes, with fuse on output
Approvals	EN 55022B, EN 61000, EN 335-2-29
Markings	CE marked

Related products

We are also authorised distributors of Yuasa batteries. This includes the NP, NPC, NPL, EN, ENL, SWL, REC and TEV series.

Please view our web site at www.yegpowerline.co.uk for more details.

