

AUTOMATIC BATTERY CHARGERS & DC SWITCH TRIPPERS

Automatic battery chargers provide a reliable and effective solution to most industrial battery charging requirements. Utilising the latest high efficiency switch-mode technology BPC's Battery Chargers & DC Switch Trippers are suitable for continuous charging of all common battery types, for example sealed lead acid VRLA/AGM, Gel, flooded lead acid, Ni-Cad etc.

BPC's Battery Chargers & DC Switch Trippers are provided with intelligent multi-stage charging profiles as standard to ensure accurate and efficient battery charging and are designed for permanent connection to the batteries, maintaining them in a fully charged condition without overcharging.

These systems are fully protected against overload, reverse battery connection, over voltage and over temperature as standard.

INPUT SPECIFICATION		
Voltage Range	88-132V or 176-264Vac (switch select)	
Frequency	47 – 63Hz	
Input Current	3.3A @ 115V, 2A @ 230V	
Inrush Current	60A @ 115V, 30A @ 230V (cold start)	
Leakage Current	<3.5mA @ 240 Vac	

Features:

- · High reliability
- · Suits all battery types
- Switch mode technology IGBT, MOSFET, etc.
- · Fully automatic operation
- 12, 24 or 48V nominal outputs
- Protection against
- Short circuit
- Overload
- Over voltage
- Over temperature
- Reverse battery
- Worldwide AC input range
- Low output ripple
- Fully enclosed construction
- Naturally cooled fan-less design
- · Charge fail, AC fault and common fault alarms
- Float, Boost and Equalising Charge Mode
- · Manual boost charging system

OUTPUT SPECIFICATION	
Voltage / Current	12 V/10 A nominal, $24 V/5 A$ nominal, $48 V/2.5 A$ nominal (Voltages calibrated to specific battery type)
Output Ripple	<20mV
Line Regulation	<u>+</u> 0.5%
Load Regulation	<u>+</u> 1%
Efficiency	85% typical
Overload Protection	Constant current limit
Over Voltage Protection	125% - 140% shut down. Recycle power to reset
Over Temp. Protection	80-90°C (on heatsink). Shutdown. Self Resetting
Reversed Battery Protection	Internal diode with external 'automatic type' blade fuse
Setup, Rise, Hold Up	500ms, 70ms, 30ms (at full load)



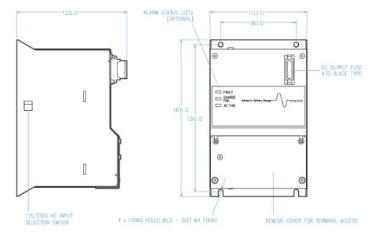
THIRD ANGLE PROJECTIONS -D-\b

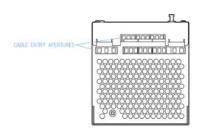
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ISOLATION	
Withstand Voltage	Input – Output 1.5kVAC Input – Earth 1.5kVAC Output – Earth 500VDC
Isolation Resistance	500VDC / 100M Ohms (Output – Earth)

GENERAL	
Monitoring Display	Coloured TFT Touch Screen Display
Controls	Battery Test Facility

ENVIRONMENTAL SPECIFICATION		
Working Temperature	-10°C to +45°C	
Working Humidity	20% - 90% RH (non-condensing)	
Storage Temperature	-20°C to +80°C	
Storage Humidity	10% - 95% RH	
Unpacked Weight	1.3kgs (approx.)	





AUTOMATIC BATTERY CHARGER

AC INPUT: 115/230Voc 50/60Hz NOMINAL INPUT VOLTAGE IS SELECTED BY SMITCH IN THE SIDE OF THE ENCLOSURE.

DC OUTPUT:
129 YOA, 249 YA OR 489 2.54. OUTPUT VOLTACES CAN BE ADJUSTED VIA INTERNAL POTENTIONETERS.
THE CURRENT UNIT LEVEL IS WORSS CALBERATED AND SHOULD NOT BE ALTERED.
AUTOMATIC RECALIERATION OF THE OPTIONAL ALARM SYSTEM IS REQUIRED IF ADJUSTMENTS ARE MADE.

CONNECTION:
ALL CABLING FEEDS THROUGH THE COVER APERTURES AND TERMINATES TO PCB MOUNTED TERMINAL BLOCKS.
TERMINAL DENTRICATION FOLLOWS:

PRIMARY EARTH NEUTRAL LIVE BATTERY -Ve BATTERY +Ve THE FOLLOWING TERMINALS (1-18) ARE OPTIONAL AND DEPENDENT ON THE SPECIFIED ALARMS AND FUNCTIONS. THE FOLLOWING TERMINALS (1-18) ARE OPTIONAL AND DEPREMENT ON THE SPECKED ALMINES AND FUNCTIONS

-VE AURULARY COMECTION (LED RETURN)

COMMON FALLT ALARM HORMALLY GLOSED CONTACT

COMMON FALLT ALARM HORMALLY GLOSED CONTACT

SYSTEM FALED LED DRIVE

CHANGE FALL ALARM HORMALLY CLOSED CONTACT

CHANGE FALL ALARM HORMALLY CLOSED CONTACT

CHANGE FALL ALARM HORMALLY CLOSED CONTACT

CHANGE FALL ALARM HORMALLY OPEN CONTACT

AC FALL ALARM FALLED LED DRIVE

AC FALL CARRED FALL THE ALARM FALLED LED THE ALA

ALARM SYSTEM:
LED'S ARE LIT GREEN FOR HEALTHY, RED FOR FAULT.
INDIVIDUAL ALARMS OPERATE AS 500N AS A FAULT CONDITION OCCURS. ALL ALARMS SELF RESET.
THE COMMON FAULT ALARM OPERATES WHEN ANY OF THE FAULT ALARM CONDITIONS HAVE BEEN PRESENT
FOR APPROXIMATELY 60 SECONDS. AT THE END OF THIS TIME PERSON DIF FAULT LED CHANCES FROM
GREEN TO RED AND THE REMOTE ALARM CONTACTS DE-ENERGISE TO SIGNAL A FAULT.

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