

Technical Specifications	Description		
AC Supply input voltage range:	88Vac – 264Vac universal mains input. (Withstanding 300Vac)		
Supply current (@full load):	<0.9A	<1.0A	<1.5A
Quiescent Supply current (@220Vac input):	<18mA	<18mA	<25mA
Mains supply frequency range:	47Hz to 440Hz		
Efficiency (typical):	85%		
DC supply input voltage range:	140Vdc to 300Vdc		
Operating temperature range:	-25°C to +60°C		
Operating humidity range:	10%RH to 95%RH non-condensing		
Operating altitude:	3000mt		
DC output voltage:	13.8VDC	13.8VDC	27.6VDC
DC output current (max):	5.0Adc	10.0Adc	5.0Adc
Output voltage ripple:	<100mV / noise <200mV pk-pk		
Charging Battery types:	VRLA Lead-Acid, AGM, Jell type		
AC/DC isolation:	Galvanically isolated to 4KVdc		
Model options:	Standard Foldback	Standard	Standard
	--	Boost	Boost
Alarm output:	SS transistor output, active LOW Max. sink current: 300mA@24Vdc		
Circuit protection:	Over voltage, short circuit, Reverse polarity, over-temperature,		
EMC Compliance:	EN61000-6-2/4 EN61000-4-4/5/6/11 UL94 V2 flammability		
Enclosure protection class:	IP20		
Overall dimensions:	100x90x72mm		
Weight:	240gr	270gr	340gr

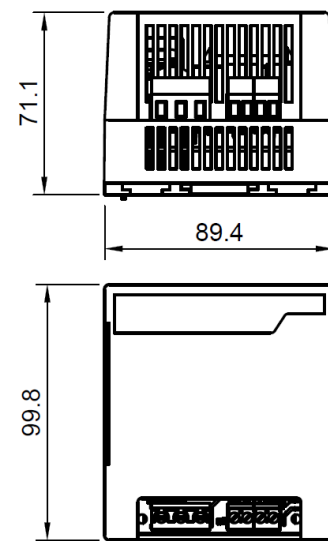


Figure 1: Dimensions are shown in mm



Connection diagram:

Parallel configuration:

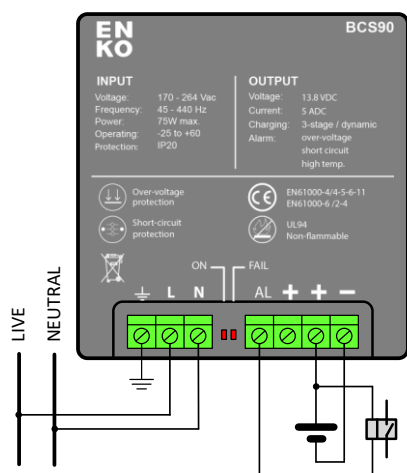
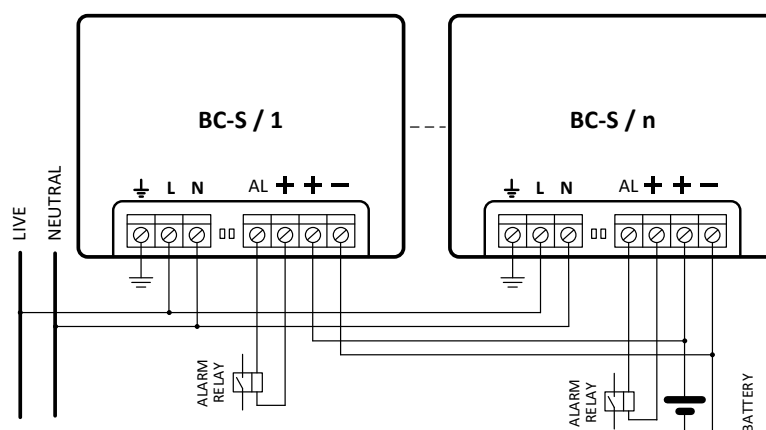


Figure 2: Single charger installation with external alarm relay



3-STAGE DYNAMIC CHARGE CHARACTERISTIC:

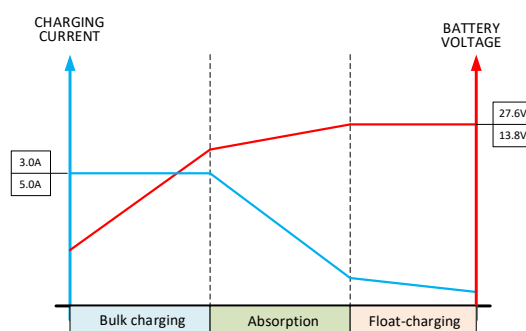


Figure 3: Block schematic

"S" models can deliver full rated current into short-circuit; "F" models have "foldback current limit" characteristic. If "B" option is selected, external controlled BOOST function is available. Please refer to the user manual for more details.

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BC-S

Switching mode Battery Chargers



Main Features:

BC-S series chargers are based on “switching-mode” design concept with high efficiency and reliability, suitable for all types of Lead-acid batteries.

These chargers are ideal for applications, where a battery needs to be maintained at best performance for starting (cranking) of all types of engines. These chargers have “3-stage Dynamic Charge” characteristics, which ensure to restore battery capacity at maximum level, based on the battery health status.

Based on its switching-mode topology, charger unit has high-efficiency during full range of its charging range. The charging DC current has minimum ripple, which prolongs “battery lifetime” and increases performance. BC-S series chargers are designed to operate at full rating over a very wide range of AC input supply voltage. Therefore, in applications where mains supply widely fluctuates, these chargers perform reliably and restore the battery capacity in the shortest possible time.

BCS90 series chargers are equipped with all necessary protection functions to ensure high-reliability operation under all conditions. Multiple chargers can be connected in parallel to increase capacity or operate in redundant mode.

These chargers can deliver full rated current into short circuit, therefore capable of charging a battery even if it is fully depleted.

WHAT'S NEW

- 3-stage Dynamic Charging characteristics
 - Bulk charge
 - Absorption
 - Float
- 88Vac - 264Vac universal mains voltage input range
- Efficiency >85%
- Voltage ripple <0.15V
- -25°C to +60°C operating
- Protection above 60°C
- Short circuit protection (can deliver full rated current into short circuit)
- Over-voltage protection
- External BOOST control function
- Alarm output
- LED indication for alarm and operation status
- 4KV galvanic isolation between AC input and DC output
- Compact design with DIN Rail mounting or panel-mount
- CE compliance tests:
 - EN61000-6-2/4
 - EN61000-4-2/4/5/11
- UL94 flammability compliance