

AUTOMATIC BATTERY CHARGER WITH SCR TECHNOLOGY

BENEFITS

- ⊕ **Tough and durable design**
- ⊕ **Secure for the battery**
- ⊕ **Fully automatic operation**
- ⊕ **Fast, precise & unique setup**
- ⊕ **Stability of the calibration**
- ⊕ **Short circuit & over current protection**
- ⊕ **No need to disconnect during cranking cycle**
- ⊕ **Safe with battery charging alternator**
- ⊕ **Full charge time optimization**
- ⊕ **Useful current/voltage display**
- ⊕ **Very reliable, 2 year warranty**
- ⊕ **Very competitive price**

GENERAL FEATURES

- Breaker & switch at power input
- Low voltage & reverse polarity indicators
- Low inrush at start
- Very low variation of the output voltage vs input voltage
- Gradual decrease of current according to the load of the battery
- Contact set for low battery voltage alarm
- Compensation circuit for the voltage lost in the wires battery connection
- Set at factory according to the battery type used
- Standard models available the same day
- CSA certified.

DESCRIPTION

Battery chargers from the HX series are designed to maintain the exact voltage needed by lead-acid or nickel-cadmium battery for optimal performance. These chargers use the SCR technology and have an automatic equalization mode.

The control circuit protects your battery against surcharge and limits the output current under short-circuit conditions.

Although very economic, these chargers have very important features including, quality of the DC output signal, full rate power and quick adjustment.

A digital display, allowing reading voltage and current output of the charger, can also be use for the setup of the charger.

Dry contacts are available as an option for remote alarm indication.

The output stability of this model is improved. For input voltage variation of $\pm 10\%$, the output voltage is regulated at $\pm 0.4\%$.

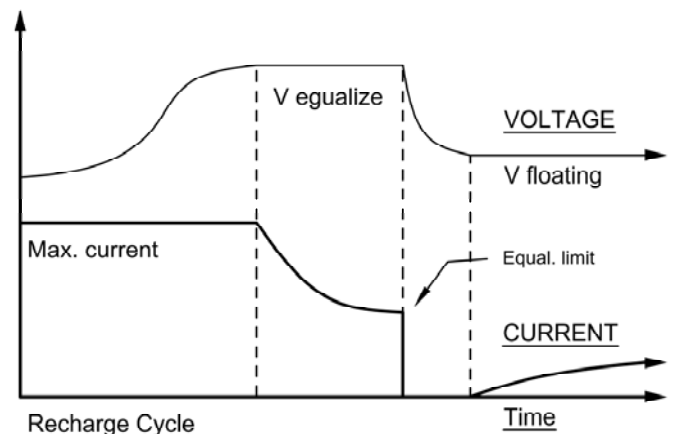
The reliability of the Enertec Battery Charger is why we offer a two year with full warranty.

OPERATION

Upon loss of charge, the charger increases the current to its maximum capacity. Voltage is then decreased to keep the maximum current value constant, for as long as it takes to reach the equalization voltage.

Once the equalization voltage is reached, the current decreases gradually to reach the current limit of the equalization mode, which is 50% of the maximum value of the charge.

At this level of charge, voltage drops to the value of floating voltage.



FEATURES

LED indicator:	- AC SUPPLY - EQUALIZE MODE - LOW BATTERY VOLTAGE - INVERSE POLARITY
Fault relay:	- LOW BATTERY VOLTAGE - CHARGER DEFAULT (option) - HIGH DC VOLTAGE (option) - AC LOSS. (option)
Pot. Setup:	- FLOATING VOLTAGE - EQUALIZATION VOLTAGE - LOW BATTERY VOLTAGE

Digital display for the voltage & current:

- Alternation delay of 2 seconds
- Precision of $\pm 1/10$ of the unity
- Jumper for supply with the battery

Correction circuit for precise voltage on the battery:

- $\pm .5$ % precision between the display voltage and then from the terminal of the battery (with 15 feet of #8 AWG wire gauge)
- LED indicator for bad connection

Manual Equalize:

- Input terminal for the activation of the manual Equalize mode

SPECIFICATIONS

Model:	HX1220S1BAx	HX2420S1BAx
Supply:	120 Vac, $\pm 10\%$	120 Vac, $\pm 10\%$
Output:	Δ Vout of $\pm 0.4\%$ for Δ Vin of $\pm 10\%$ At full load, continue Range for Low Voltage: 10.7 @ 13.2 Vdc Range for Float: 12.6 @ 13.5 Vdc Range for Equalize: 13.5 @ 14.5 Vdc Calibration accuracy: ± 0.01 Vdc	Δ Vout of $\pm 0.4\%$ for Δ Vin of $\pm 10\%$ At full load, continue Range for Low Voltage: 21.5 @ 26.5 Vdc Range for Float: 24.5 @ 27.5 Vdc Range for Equalize: 27.5 @ 30.5 Vdc Calibration accuracy: ± 0.01 Vdc
Weight:	11Kg (24 lbs) approx.	16Kg (34 lbs) approx.
Dimensions:	13"H x 12"W x 8"D	13"H x 12"W x 8"D
Construction:	Enclosure: 0.1" Aluminium, powder painting Mounting Plate: Steel, white powder painting	Enclosure: 0.1" Aluminium, powder painting Mounting Plate: Steel, white powder painting
Operating temperature:	-30°C / 40°C (charger) -35°C / 50°C (display)	-30°C / 40°C (charger) -35°C / 50°C (display)

MODELS

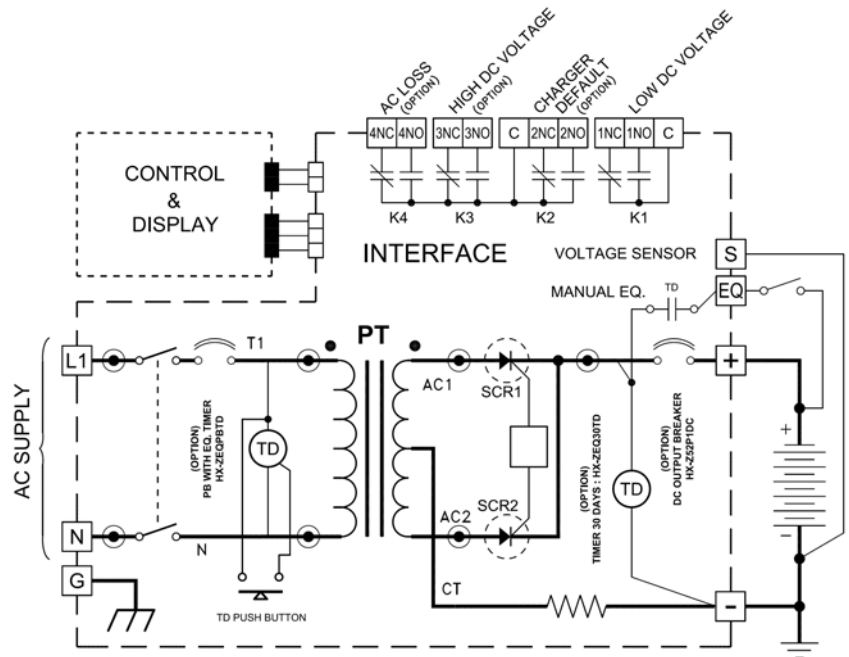
Standard 20 amperes, 120 Vac model:

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	FAULT RELAY
HX1220S1BA1	12 Vdc	20 A.	1
HX1220S1BA4	12 Vdc	20 A.	4
HX2420S1BA1	24 Vdc	20 A.	1
HX2420S1BA4	24 Vdc	20 A.	4

OPTIONS

- 240 Vac input voltage
- Programmable Cyclic exerciser, delay 0-30 days, duration from 0-10 hours
- Push button for programmable Equalization mode delay (0-10 hours)
- Charging Mode Selector Switch (EQ.-AUTO.-FLOAT)
- DC Output breaker
- DC output breaker trip contact

CONNECTIONS



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