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## The Kim Hotstart Battery Charger

The Kim Hotstart Battery Charger System is designed for Locomotive and Industrial engines that require battery start-up. The Kim Hotstart Battery Charger System is designed and constructed for ease of operation and requires minimal maintenance. It is a permanently installed system with no battery disconnecting required. It uses solid state circuitry assuring high reliability.

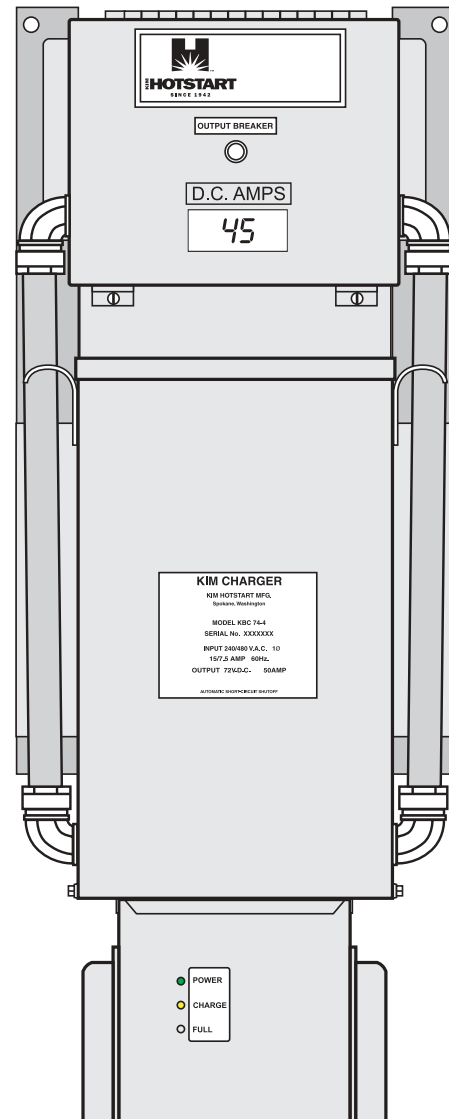
**NOTE: The Kim Hotstart Battery Charger is designed to maintain a D.C. voltage. It is not designed for restoring batteries that are completely drained, damaged, or corrupted. Drawing more than 50 Amps for an extended length of time will cause the circuit breaker to trip.**

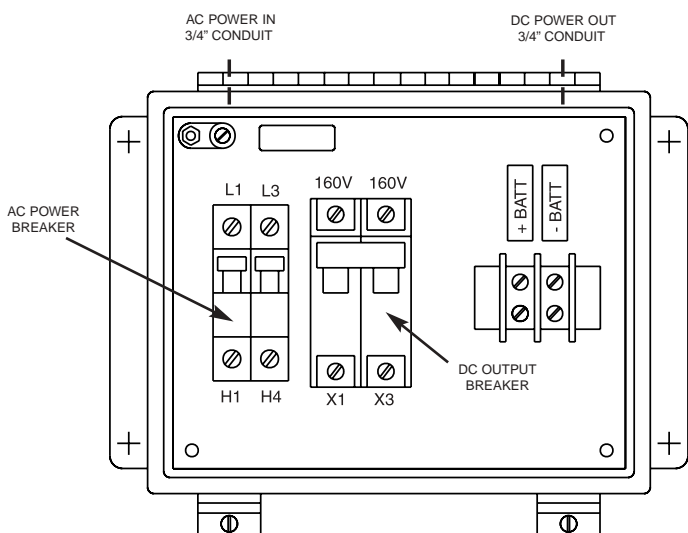
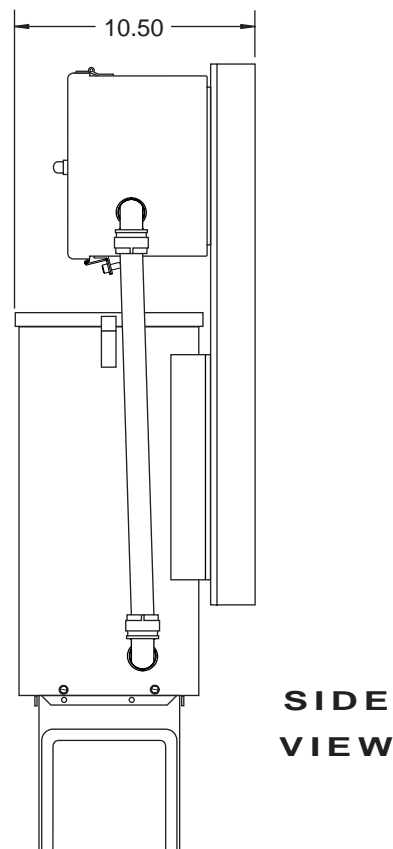
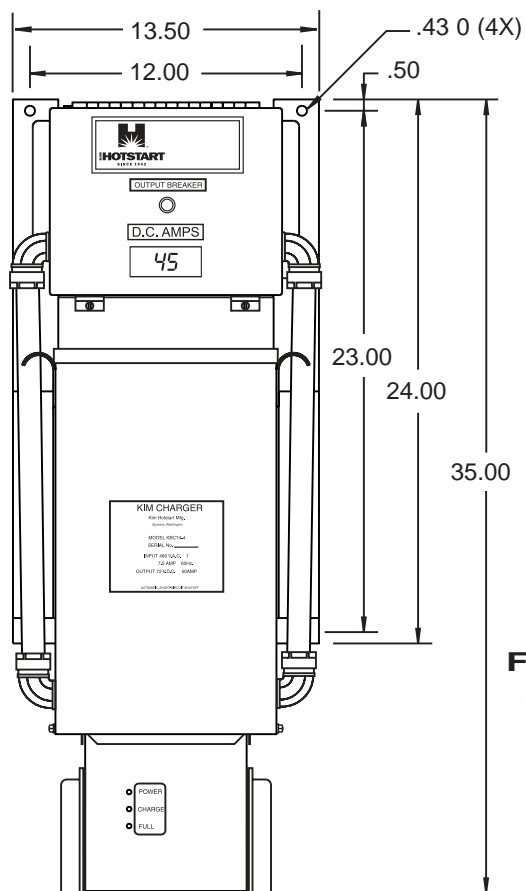
### Module

The Kim Hotstart Battery Charger is designed to convert single phase A.C. power from a line source to a controlled D.C. voltage output. Battery voltage and charge current are monitored continuously by solid state circuitry to provide higher charge currents when batteries are drained, and trickle charge current when they are full. The battery's voltage at any time sets the level of charge current provided by the module.

As the battery becomes fully charged, its need for charge current diminishes. The module determines the decreased needs of the battery and continuously tapers the charge current. Upon reaching 5 Amps of charge current, the module illuminates the FULL light and starts to turn off the CHARGE light. The CHARGE light is off when the battery is fully charged. Both lights may be illuminated when the unit is approaching 5 Amps. The charger will continue to taper the current (with the FULL light on) and maintain a trickle charge of 2-5 Amps. The level of trickle charge will change based upon the battery's needs and will automatically revert to higher levels of charge if the battery's voltage drops.

This 50 Amp variable controlled automatic charging system is also overload protected. Circuit breakers protect the charger's transformer AC input primary winding and it's secondary winding. The DC output is controlled and protected by an internal current limiting system. No switches, timers, or adjustments are required.





**For Dry Location Use Only**

CATALOG NUMBER	VDC	VAC
KBC74-2	72	240
KBC74-4	72	480
KBC74-5	72	575

A junction box is supplied for your A.C. power input. Your voltage application will determine which amperage breaker is required (L1, L3).

575v/480v supplied with 10 Amp breaker  
240v supplied with 20 Amp breaker

A terminal strip, marked +BATT and -BATT, is provided inside the junction box for connecting the battery lead wires.