

## Battery Charging Unit **BCU**



Hotstart's BCU battery charging unit provides float charging to batteries, allowing them to maintain their available voltage. The BCU is designed for use in locomotives, heavy equipment, mobile applications and other battery installations.



### **BUILT FOR LOCOMOTIVES**

To take advantage of limited locomotive space, the BCU charger, transformer, circuit protection, and all necessary components are packaged in a compact, foot-mounted configuration.



### **DESIGNED FOR RAILROADS**

BCU models are configured to convert a variety of common standard on-site AC power sources to DC outputs suited for typical locomotive battery voltages. To meet increased demand, multiple units may be installed in parallel as a single battery maintenance system.



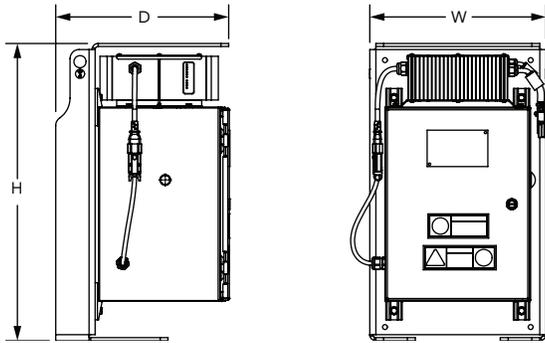
### **A COMPLETE READINESS SOLUTION**

For shore power applications, the BCU may be installed on-board to operate in tandem with a Hotstart idle reduction electric heating system. During layovers, the locomotive will remain charged and ready to start immediately.



### **EASY OPERATION & INTEGRATION**

The BCU LED indicator displays status for >80% charge, a full charge, and system faults. Charging is automatically controlled and circuit-protected; no switches, timers, or adjustments are required.



## Ordering Information BCU

AC Input Voltage	DC Output		Model Number
	Volts	Watts	
120	72	1200	BCU120-72
240	72	1500	BCU240-72
480	72	1500	BCU480-72
575	72	1500	BCU575-72

Height (H)	Width (W)	Depth (D)	Weight*
24.5"	14.5"	14.3"	140 lbs
622 mm	368 mm	363 mm	63.5 kg

System	
Control Box Ingress	NEMA 4/IP66
Power Wiring Entrance	0.875"
Supported Battery Type**	Lead acid, (Wet/AGM/GEL)

AC Input	
Phase	single-phase (1 Ø)   three-phase (3 Ø)
Frequency	45 – 65Hz
Input Voltage	120V   240V   480V   575V

DC Output	
Output Voltage	72V
Max Wattage (120V)	1200W
Max Wattage (240–575V)	1500W
Max Current (120V)	17 A
Max Current (240–575V)	20 A

\*System weight shown for 480V/575V rated models. System weight for 120V/240V rated models may vary.

\*\*BCU model battery charger not recommended for lithium ion or nickel cadmium batteries.

Options shown represent typical tested or certified configurations. Additional options or configurations may be available. For assistance with your heating system application, contact Hotstart at 219.648.2449 or [railroad@hotstart.com](mailto:railroad@hotstart.com).

