



ABSOLUTE POWER

High Efficiency Charging Systems for Traction...



ENERGY EFFICIENCY

- ▶ With a degree of efficiency of up to 96% and a $\cos \phi$ of up to ~ 1 , the required mains power is reduced and therefore also the investment, installation and operating costs.
- ▶ The compact design allows for high-density installations in the smallest of spaces, reducing the amount of space required for the charging station
- ▶ Expansion of the reactive current compensation system is not necessary due to the sinusoidal current consumption and excellent power factor.

ENVIRONMENT

- ▶ The use of highly efficient charging technology can reduce CO₂ emissions to a minimum.
- ▶ The ideally smoothed charging current, combined with cutting-edge charging characteristics, allows uniform temperature charging, increases service intervals and prolongs the lifespan of the battery.
- ▶ Adherence to the electromagnetic compatibility (EMC) class A and B threshold values avoids any operation faults.

FLEXIBILITY

- ▶ The multi-voltage feature allows different types of batteries to be charged using a single BELATRON charging unit.
- ▶ Using a battery ID chip or a BATCOM digital battery controller, charging parameters can be individually adjusted at any time to suit all battery types and/or environmental conditions.
- ▶ The variably programmable charging curve allows for effective pulse charging, as well as future-proofed adaptation of the charging parameters for new battery types and future optimization of the charging process.

BATTERY MONITOR



Special Features:

- ▶ Current measurement using a Hall sensor in a flexibly attachable current measurement head
- ▶ Bidirectional data transfer using Bluetooth low energy technology
- ▶ Large programmable LED status indicator
- ▶ Digital display for voltage, current, temperature, etc.
- ▶ Software for system analysis (desktop/mobile)
- ▶ Compact dimensions for easy attachment
- ▶ One battery controller for all battery voltages and capacities

Technical Features:

- ▶ Integrated data logger for comprehensive battery use evaluation
- ▶ Integrated event logging for recording battery parameters
- ▶ Integrated statistics counter for the entire life cycle of the battery
- ▶ Detailed report with just one click

IHF CHARGER

Settings and parameters can be adjusted using the 3.5" touch panel where devices and battery information can be called up.

Final charging values	
Voltage	2.7 V/C
Current	10.5 A
Ah-sum	223 Ah

Final charging values	
LP01 - IPU1a Pulse	
145 Ah charged	
SOC = 29%	



Touch panel changes colors to provide a visual status of the charger and battery status. Uses a series of green, yellow and red for quick identification.

SPECIFICATIONS

VAC In	AC Phase	Battery Voltage (V)	Maximum Charging Current (A)	Cabinet Type	PowerHouse IHF Charger Model Number
480	3	24	150	WT60	CR12IHF3-150
480	3	24	300	WT120	CR12IHF3-300
480	3	24	450	WT180	CR12IHF3-450
480	3	36	150	WT60	CR18IHF3-150
480	3	36	300	WT120	CR18IHF3-300
480	3	36	450	WT180	CR18IHF3-450
480	3	48	120	WT60	CR24IHF3-120
480	3	48	240	WT120	CR24IHF3-240
480	3	48	360	WT180	CR24IHF3-360
480	3	80	85	WT60	CR40IHF3-85
480	3	80	170	WT120	CR40IHF3-170
480	3	80	255	WT180	CR40IHF3-255
480	3	96	70	WT60	CR48IHF3-70
480	3	96	140	WT120	CR48IHF3-140
480	3	96	210	WT180	CR48IHF3-210
600	3	24	150	WT120	CR12IHF3-150
600	3	24	300	WT180	CR12IHF3-300
600	3	36	150	WT1820	CR18IHF3-150
600	3	36	300	WT180	CR18IHF3-300
600	3	48	120	WT120	CR24IHF3-120
600	3	48	240	WT180	CR24IHF3-240
600	3	80	85	WT120	CR40IHF3-85
600	3	80	170	WT180	CR40IHF3-170
600	3	96	70	WT120	CR48IHF3-70
600	3	96	140	WT180	CR48IHF3-140

BIDIRECTIONAL COMMUNICATION



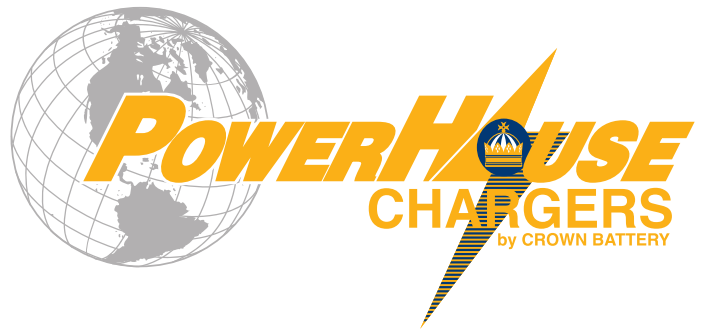
Optionally, wireless data exchange enables two-way communication. Using the appropriate app for a range of devices and the Bluetooth® low energy technology, you can set up a quick and uncomplicated connection with the BatCom Digital battery controller. This allows optimal coordination for various things, such as:

- ▶ Adapting the charging behavior to the battery temperature. (e.g. in cold warehouses or where there is high ambient temperature)
- ▶ Transfer of battery data to configure optimal charging parameters.
- ▶ Optimization of fleet deployment.
- ▶ The graphics user interface allows up-to-date battery and device information to be retrieved quickly and easily.



DIMENSIONS

Cabinet Type	H	W	D
WT60	23.70"	12.30"	7.90"
WT120	23.70"	12.30"	12.00"
WT180	23.70"	12.30"	16.10"
WT120T	23.70"	12.30"	12.01"
WT180T	23.70"	12.30"	24.10"



1445 Majestic Drive | P.O. Box 990
 Fremont, OH 43420 USA
 +1.419.334.7181 | sales@crownbattery.com
 www.crownbattery.com