

Excellent Technology, Efficiency and Quality



## BELATRON

Charging Solutions for:

- Conventional overnight charging
- Opportunity charging
- Fast charging

# BELATRON High-Efficiency Charging Systems are cost-effective due to supreme energy efficiency



BELATRON, 48 V - 240 A

BELATRON, 80 V - 255 A

Final charging values	
Voltage	2.7 VIC
Current	10.5 A
Ah-sum	223 Ah

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

Current charge values	
LP01 - IPULa Pulse	
145 Ah charged	
SOC - 92 %	

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.



BATCOM digital+



Visualization of key battery data, e.g. charging status, temperature, battery voltage and current.



## 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

## Charges all common battery types

- Traffic Light or Touch Screen display options
- Small Lightweight Modular Design
- Adjustable parameter settings
- Efficiency – 96 %
- Multi-voltage DC Operation
- Low Energy Cost
- Up to 54 kW Cabinet Design available
- Options available:
  - Communications with Battery / Lithium Ready / Euro Connectors / Electrolyte circulation Air Pump
- UL / CEC / CSA Approved
- Up Battery Monitor with communications and data collection to optimize fleet

## New BATCOM

- Bluetooth® communication
- Large display / Large light indications
- Easy to install split core CT
  - Separate from main body
- Temp and electrolyte level probes
- Stand alone monitor or used to tell charger profile and/or battery size/voltage

## Bidirectional communication between the charging unit, battery controller and PC's tablets or smartphones.

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 Bluetooth® word mark and logo are registered trademarks of Bluetooth SIG, Inc.

## Charger Selection Guide

Battery voltage	VAC/ AC-Phase	Max DC Amp output	Conventional 8 hour charge - Max. Battery amp/hr.	Opportunity 25 % start rate - Max. Battery amp/hr.	Fast Charging 40 % start rate - Max. Battery amp/hr.	BENNING Model	Charger weight - Lbs.	Cabinet Dimensions H x W x D
24	480/3	150	1000	600	375	D400-480G24/150B-FB	45	23.7" x 12.3" x 7.9"
24	480/3	300	2000	1200	750	D400-480G24/300B-FB	69	23.7" x 12.3" x 12.0"
24	480/3	450	3000	1800	1125	D400-480G24/450B-FB	93	23.7" x 12.3" x 16.1"
36	480/3	150	1000	600	375	D400-480G36/150B-FB	45	23.7" x 12.3" x 7.9"
36	480/3	300	2000	1200	750	D400-480G36/300B-FB	69	23.7" x 12.3" x 12.0"
36	480/3	450	3000	1800	1125	D400-480G36/450B-FB	93	23.7" x 12.3" x 16.1"
48	480/3	120	800	480	300	D400-480G48/120B-FB	45	23.7" x 12.3" x 7.9"
48	480/3	240	1600	960	600	D400-480G48/240B-FB	69	23.7" x 12.3" x 12.0"
48	480/3	360	2400	1140	900	D400-480G48/360B-FB	93	23.7" x 12.3" x 16.1"
80	480/3	85	560	340	210	D400-480G80/85B-FB	45	23.7" x 12.3" x 7.9"
80	480/3	170	1130	680	425	D400-480G80/170B-FB	69	23.7" x 12.3" x 12.0"
80	480/3	255	1700	1020	635	D400-480G80/255B-FB	93	23.7" x 12.3" x 16.1"
<b>600 Volt input</b>								
24	600/3	150	1000	600	375	D600G24/150B-FB	117	23.7" x 12.3" x 12.0"
24	600/3	300	2000	1200	750	D600G24/300B-FB	141	23.7" x 12.3" x 24.1"
36	600/3	150	1000	600	375	D600G36/150B-FB	117	23.7" x 12.3" x 12.0"
36	600/3	300	2000	1200	750	D600G36/300B-FB	141	23.7" x 12.3" x 24.1"
48	600/3	120	800	480	300	D600G48/120B-FB	117	23.7" x 12.3" x 12.0"
48	600/3	240	1600	960	600	D600G48/240B-FB	141	23.7" x 12.3" x 24.1"
80	600/3	85	560	340	210	D600G80/85B-FB	117	23.7" x 12.3" x 12.0"
80	600/3	170	1130	680	425	D600G80/170B-FB	141	23.7" x 12.3" x 24.1"

Specifications are subject to change without notice.

### Housing (WT versions)

Cabinet type	Size [inch]		
	Height	Width	Depth
WT60	23.7	12.3	7.9
WT120	23.7	12.3	12.0
WT120T	23.7	12.3	12.0
WT180	23.7	12.3	16.1
WT180T	23.7	12.3	24.1



BENNING Germany, Factory II

# BENNING

Benning Power Electronics, Inc.  
 1220 Presidential Drive • Richardson, Texas 75081  
 Tel.: +1 214/553 1444 • Fax: +1 214/553 1355  
 E-mail: sales@benning.us • www.benning.us

