

BDC3000

Portable Intelligent Battery Charger



1-110V | 0.5-40A

Adjustable Voltage and Current Output

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DK Testing Equipment (HANGZHOU) Co., Ltd

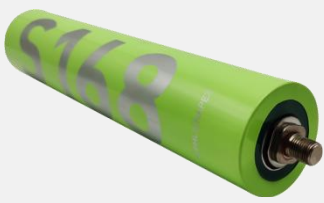
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Description:

BDC3000 is a portable, intelligent high-power battery charger that utilizes a three-stage charging process. It incorporates a dual-ring cascade PID control system to precisely regulate the charging current and voltage, enabling flexible and accurate control of the charging curve. This charger offers precise charging capabilities for both lead-acid batteries and various types of lithium batteries. Users can easily set the desired charging voltage, current, and cut-off current parameters. With a maximum charging voltage range of 1-110V and a maximum charging current range of 0.5-40A, it effectively charges battery packs and modules ranging from 6-84V as well as individual lithium battery cells. Its rapid and precise charging capability makes it an ideal charging solution for electric scooters, electric bicycles, electric tricycles, electric cars, and other electric mobility devices.

Applications:

It is applicable for charging various types of batteries, including lithium-ion, lead-acid, nickel-metal-hydrate, and nickel-cadmium batteries.

			
Lithium Battery Modules	Lithium Battery Packs	Lead-acid Battery Packs	2V, 6V, 8V, 12V, 16V, 18V Lead-acid Batteries
			
LFP/NMC/NCA/LCO/LMO Prismatic Cells	LFP/NMC/NCA/LCO/LMO Cylindrical Cells	LFP/NMC/NCA/LCO/LMO Pouch Cells	Ni-MH batteries

Features:

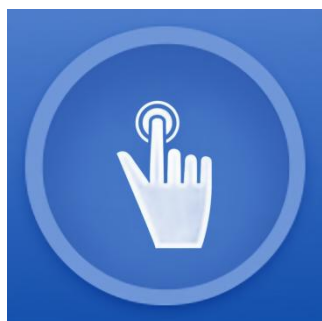
- The Instrument uses a high-definition LCD screen display, each index is clear at a glance.
- The parameter setup and parameter switching are set and switched by a "START" switch and a "SET" knob. All parameters (voltage, current, time) settings have the saving function.

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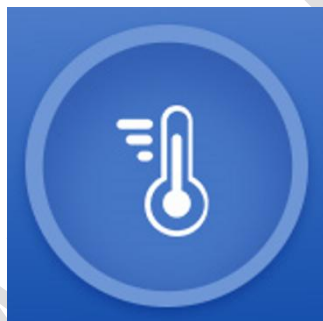
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- Intelligent speed fan can run continuously, delay the power-off of the fan, and blow off the remaining heat.
- Multiple protection functions, such as reverse connection protection, over-voltage and over-current protection, over-temperature protection, etc.
- Record data such as charging power, current and charging time in real time.
- One charger provides comprehensive charging solutions for various types of batteries. With an adjustable voltage output ranging from 1 to 110 volts and an adjustable current output ranging from 0.5 to 40 amperes, this charger is compatible with a wide range of battery types.
- The charging cut-off current is adjustable and can be configured based on the capacity of various battery types.
- Equipped with an advanced and efficient processor, the device ensures precise control over the charging process and accurately determines its termination to guarantee that the battery reaches a fully charged state.
- It automatically ceases operation upon reaching full charge and logs data to ensure the safety of the charging process.

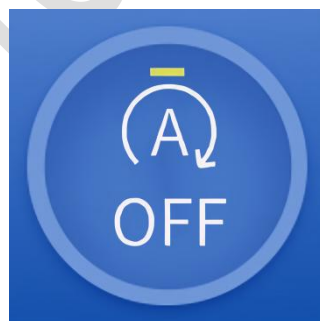
8 Advantages Function



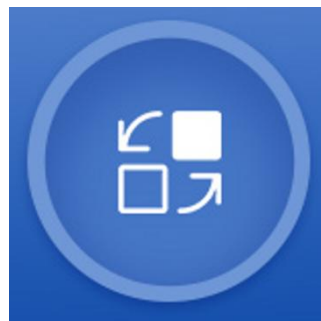
Easy Operation



Battery Temperature Monitoring



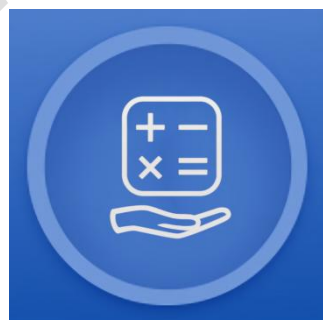
Stops Automatically



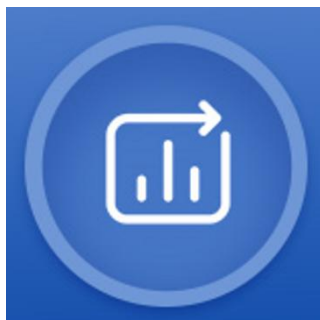
Anti-Reverse Connection Protection



Over-charge Protection



Accurate Calculation



Data Visualization



Charging Power Display

3.5" High-definition LCD Screen Data Display

Record each charging capacity, real-time voltage, current, and time.
Users can effortlessly comprehend the details of each charge at a glance.



Friendly Operation Easy in Use

The charging parameters (voltage, current, and cut-off current) can be set using the knob. Press the button to start charging and stops automatically when fully charged.



Used in conjunction with a discharge tester to establish a comprehensive charge and discharge system

When used in conjunction with DK BCT40, it constitutes a charge and discharge detection system with a maximum discharge current of 40A and a maximum charge current of 20A.



Technical Specification

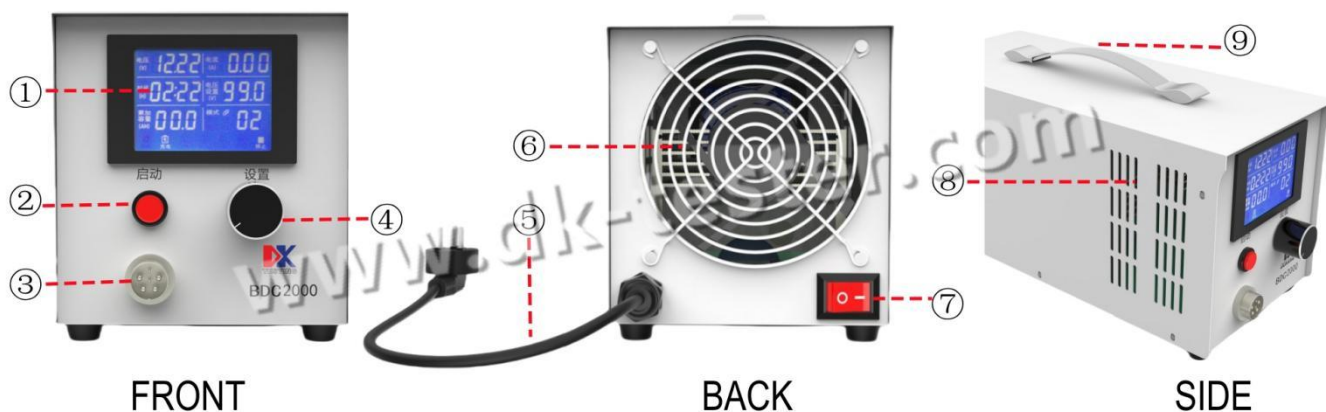
Description: Portable Intelligent High-power Battery Charger		
Model No.: BDC2000		
Items		Parameter
Input Voltage:		AC 100V-240V 50/60Hz
Input Power:		3200 W (Maximum full loading)
Standby Power:		20W
Applicable Battery Types:		Lithium and lead-acid batteries
Voltage	Constant Voltage Output:	1V-110V
	Charge Voltage Error:	0.1V
Current	Constant Current Output:	0.5A-40A adjustable
	Charge Cut-off Current:	0.1 – 5 A adjustable
	Charge Voltage Error:	0.1A
Charge	Charge Mode:	Constant current & voltage charge
	Cut-off Conditions:	current
Data Display		LCD
Operation Method		Panel
IP Grade		IP20
Voltage & Current Test Sampling		4-core wires connection
Noise		< 76 dB

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Upper Computer Communication	None
Communication Port	None
Equipment Work Ambient Conditions	
Operation Ambient Temperature	0 °C - 40 °C
Storage Temperature	-10 °C - 50 °C
Operation Ambient Humidity	≤ 70 % RH (No condensation)
Storage Ambient Humidity	≤ 80 % RH (No condensation)
Fixture Specification and Dimension	
Clamp Type	Crocodile Clamp
Clamp Photo	 The picture is for reference only, subject to the actual product
Product Size	355 * 140 * 150 mm
Product Weight	4 kg
Total Channel No.	One
No of Batteries to be connected	One
Product Photo	 The picture is for reference only, subject to the actual product

Illustration:



- ① LCD ② START BUTTON ③ OUTPUT PORT ④ SETTING KNOB ⑤ POWER CORD
⑥ AIR OUTLET ⑦ POWER SWITCH ⑧ AIR INLET (LEFT AND RIGHT) ⑨ HANDLE



LCD

Battery Connection:

Use the supplied alligator clip output wire to connect the positive and negative poles of the battery

