



Energy inside

# CDT- 45

Single channel portable charger  
Instruction Manual Rev 1.0  
www.blueshape.net



The user is being alerted of the importance of going through the literature accompanying this product and getting familiarised with the important safety and operating instructions included.

**Please follow the safety instructions below and keep them handy for quick reference:**

- Protect the equipment from humid environments. Avoid any contact with water or other fluids. Do not use if any liquid has been accidentally spilled over the equipment.
- Avoid touching the D-TAP terminals.
- Unplug when not in use and avoid power surges or unstable AC sources.
- Avoid setting up near heat sources such as fireplaces, radiators, stoves or other heat generating equipment.
- To prolong lifetime, avoid usage in overheated environments.
- Use only, to charge BLUESHAPE or third party V-lock batteries or 3-Stud batteries with charge enabled D-TAPs.
- Contact qualified service personnel for inspection or repair.
- Do not remove cover or dismantle the charger. There are no user-serviceable parts inside.



**Note:**

The equipment may become rather hot during operation. This is not a sign of malfunction. This is to be expected due to the high power handling of the device in such a small volume.

### Introduction

The CDT-45 has been designed as a handy, economical, portable charger to charge those batteries that have charge enabled D-TAP sockets.

It is safe, compact, light and stand-alone and can easily be taken anywhere without much inconvenience. Nevertheless, It still features quick charging capability @ 4.5A in constant current mode. Pre-charge feature is also supported.

D-TAP charging facilities in Blueshape batteries are as follows:

Pre-Granite series - not available

Granite (one) series - not available

Granite Two, V-lock / 3-stud - available (the charge enabled input is the one with the D-Tap cover, the same colour of the gasket (blue or red depending on battery model))

Granite Mini series, V-lock or 3-stud - available through both D-TAP sockets

### Features

- Perfect for transportability and for having a readily available charging means at any time and place whenever needed
- Charging unit with constant current and constant voltage charging profile
- Pre-charge feature for deeply discharged battery protection included in the charger operation
- Rapid time to charge. A BLUESHAPE BV100HD can be fully charged within 120 minutes.
- Short circuit and overload internal protection
- Lightweight and compact

**Note:**

This equipment is not an intelligent charger and does not communicate with BLUESHAPE BSCVMON software

### Main specifications

Input Voltage	100 - 240V AC, 50-60Hz [120VA]
Charge indication	Single LED display system
Output Voltage	DC 16.8V (+/- 0.8%) -
Output Current	Max 4.5A in CC
Operating Temp.	5°C + 45°C
Dimensions	60 x 132 x31mm (2.36" x 5.2" x 1.22")
Weight	0.3Kg (0.67lbs)



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	<b>LED indication</b>		
	1	Steady green	On switch on
	2	Steady red	Constant current followed by constant voltage charge
	3	Steady green	Charge ready
<p><b>Note:</b></p> <p>The charger's constant voltage phase continues indefinitely to a very low taper. It is therefore normal to see a BLUESHAPE battery with all LEDs continuing to light up even after charge has been completed (with the battery still connected to the charger). However, the user is alerted and can consider the battery as fully charged when there is a change in the LED colour from red to green.</p>			
<p><b>Package contents</b></p> <ul style="list-style-type: none"> <li>• Charger unit with D-TAP plug</li> <li>• EU-Schuko power cord included as standard</li> <li>• User operating manual</li> </ul> <p><b>Note:</b> US power cord supplied for USA sales UK power cord supplied for UK sales</p> <p><b>International certification</b></p> <p>The power unit of this equipment has undergone and successfully passed extensive certification testing</p>			

## Warranty

BLUESHAPE products are warranted to be free from defects in materials, workmanship and functionality for a period of 18 months commencing from the date of purchase. This warranty shall not apply to any products or parts of, that have been subjected to misuse, negligence, accidental or abnormal conditions of operation. The buyer should always contact the place of purchase for any return of defective product. It is important that the buyer provides us with as much information as possible about the failure being claimed. In the event of product failure for which warranty applies, we will repair or replace the product free of charge. In these cases, all expenses including transport charges will be borne by us. In the case where the failure has been caused by one of the causes explained above, repairs would be billed at a nominal cost. Prior to the carrying out of any repairs, we will inform the customer of the estimated costs of these repairs. These warranty conditions are the only ones applicable to our products and overrule any other expressed or implied warranties. We shall not be held liable for any damages resulting from warranty statements other than those contained in this declaration. This warranty is not transferable and is only applicable to the original buyer. In all warranty claims, the buyer must reproduce the original purchase invoice.