

# Li-Ion Battery Packs



The battery packs are equipped with built-in safety/protection features. Should these features be compromised in any way what so ever, the battery pack may leak corrosive chemicals, over-heat, emit smoke, burst and/or ignite.



## Danger

- Do not disassemble or modify the battery pack.
- Do not connect the positive (+) and negative (-) terminals to

a metal object such as a wire. Do not transport or store the battery pack together with metal objects without adequate insulation.

- Do not discard the battery pack into fire or heat.
- Do not use or leave the battery pack near a heat source such as a fire or a heater (> 80°C).
- Do not immerse the battery pack in fluids, water or seawater and do not allow it to get wet.
- Do not recharge the battery pack near fire or in extremely hot environments.
- To recharge the battery pack, use the battery charger specifically designed for the device and observe the recharging conditions specified by the maker of the charger.
- Do not pierce the battery pack with pointed or sharp objects.
- Do not strike it with blunt objects.
- Do not subject to excessive mechanical loads or shocks, such as by striking or throwing the battery pack.
- Do not use an apparently damaged or deformed battery pack.
- Do not directly solder the battery pack.
- Do not reverse the positive (+) and negative (-) terminals, during charging, operation or otherwise.
- Do not force the connection if you may not easily connect the battery pack terminals to the battery pack charger or other equipment. Confirm that the terminals are correctly oriented.
- If the battery pack leaks, and the electrolyte reaches the eyes, do not rub them. Instead, rinse the eyes with clean running water and immediately seek medical attention.

Failure to do so may result in eye injury.



## Warning

- Do not use the battery pack for other purposes other than those specified. Otherwise, its guaranteed performance will be lost and/or its service life will be shortened.
- If recharging operation fails to complete even when a specified recharging time has elapsed, immediately stop further recharging.
- Do not subject to excessive micro-wave radiation.
- Do not subject to excessive ambient pressures.
- If the battery pack gives off an odour, generates heat, becomes discoloured or deformed, or in any way appears abnormal during use, recharging or storage, immediately remove it from the equipment or battery pack charger and stop usage immediately.



## Caution

- Do not use or subject the battery pack to intense sunlight or hot temperatures such as in a car in hot weather.
- Do not use it in a place where high static electricity may be present.
- The guaranteed operating temperature range is 0°C to 40°C.
- If electrolyte leaking from the battery pack contacts your skin or clothing, immediately wash it away with running water. Failure to do this may result in skin inflammation.
- Keep out of reach of children.
- If you find discolouration, a bad odour due to leakage, over-heating and/or other irregularities when using the battery pack for the first time return it to your supplier or vendor.
- Do not store battery packs on chargers or idle equipment.

## 1. Set-up and Operation

- For battery packs with a USB type-A connector, the output may be activated by pressing the charge indicator battery button.

# Charging Battery Packs with CMDUAL-PD



## Danger

- The charger is intended for specific Li-Ion batteries only. Do not use with other battery chemistries or with incompatible battery mounts.

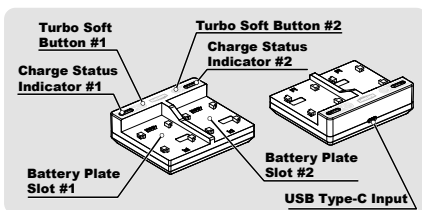


## Warning

- Do not use Turbo mode on battery packs of 2600mAh or less.
- Improper use of the charger or AC adapter might cause electric shock, do not disassemble charger AC adapter.
- Charger for indoor use only.
- Do not subject charger to excessive mechanical loads or shocks, such as by dropping it.
- The guaranteed recharging temperature range is 0°C to 40°C - as limited by the pack. A recharging operation outside this temperature range may lead to damage to the battery pack.
- Do not expose to excessive direct sunlight.
- Do not cover charger during use.

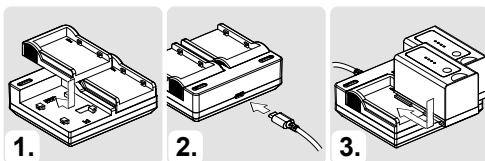
## 1. Overview

CMDUAL-PD is equipped with two configurable battery bay slots, and supports USB power delivery input.



## 2. Set-up and Operation

- Attach desired plates to the slots ensuring correct mating and locking of plate in its slot. You may use different charging voltages, at the same time.



- Attach USB Type-C power adapter to the rear port.
- Attach battery which matches with the installed charger battery plate.
- (Optional) Touch the turbo soft touch button to activate turbo charge mode. Turbo charge will increase charge current and reduce charging time.
- Observe LED charge indicator to identify the battery pack charging status. A **blinking amber** LED indicates that the battery pack is charging. When turbo mode is activated, the LED will change to **blue and blink at a faster rate**. When the battery pack has finished charging, the LED charge indicator will light as **solid green**. A **solid red** LED indicates that the charger is in an error state.
- Remove battery pack from the charger when not in use.

## Operation Modes

The charger's performance is dependant on the AC adapter used.

AC Adaptor Power Rating	Plate Configuration				
	1x 8.4V	1x16.8V	2x 8.4V	2x 16.8V	1x 8.4V 1x 16.8V
5V 3A - 15W	✗	✗	✗	✗	✗
9V 3A - 27W	✓	✗	No Turbo	✗	✗
12V 3A - 36W	✓	✗	✓	✗	✗
15V 3A - 45W	✓	✗	✓	✗	✗
20V 3A - 60W <sup>1</sup>	✓	✓	✓	✓	✓
20V 5A - 100W <sup>2</sup>	✓	✓	✓	No Turbo	✓
20V 5A - 100W <sup>2</sup>	✓	✓	✓	✓	✓

<sup>1</sup> Maximum adapter capability included with product

<sup>2</sup> Requires Electronically Marked Cable

\* Turbo Charge Current Adapts with Available Power



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**DV PowerPacks**  
Li-Ion Batteries for Camcorders, On-Camera  
Lights and Accessories

**USER MANUAL**

Revision 3.0A  
www.blueshape.net

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## BMBP9 Series

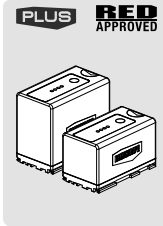
Replaces Canon BP-9XX

### Main Features:

- Charge Indicator (4-Step LED)
- Battery Data Communication with **RED KOMODO™**
- Blueshape Plus - Higher Capacity

### Specifications:

- Nominal Voltage: 7.2V
- Nominal Capacity: 46Wh / 69Wh
- Weight: 212g / 293g



## BMBPA60

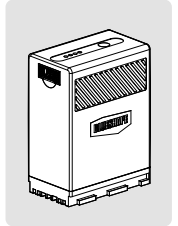
Replaces Canon BP-A65

### Main Features:

- Charge Indicator (4-Step LED)
- 1x D-Tap (3.25 A Max.)
- 1x USB (Type A - 2.4A Max. / 12W)

### Specifications:

- Nominal Voltage: 14.4V
- Nominal Capacity: 6700mAh — 96Wh
- Weight: 450g



## BMBLPE6

Replaces Canon LP-E6N

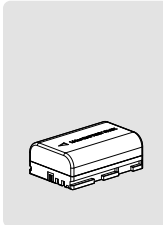
### Main Features:

- High Capacity
- Includes Battery Cover

### Specifications:

- Nominal Voltage: 7.2V
- Nominal Capacity: 2000mAh — 14Wh
- Weight: 78g

**Warning**  
Do not charge in Turbo mode



## BMBPU90

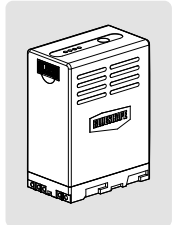
Replaces Sony BP-U90

### Main Features:

- Charge Indicator (4-Step LED)
- 1x D-Tap
- 1x USB (Type A - 1.0A Max. / 5W)

### Specifications:

- Nominal Voltage: 14.4V
- Nominal Capacity: 6700mAh — 96Wh
- Weight: 418g



## BMNPF Series

Replaces Sony NP-FXXX

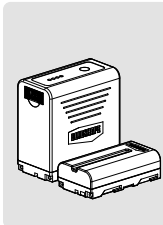
### Main Features BMNPF970:

- Charge Indicator (4-Step LED)
- 1x USB-A Output + USB Micro-B Charge In

### Specifications:

- Nominal Voltage: 7.2V
- Nominal Capacity: 72Wh / 24Wh
- Weight: 310g / 104g

**Warning**  
Do not charge BMNPF570 in Turbo mode



## BMNPFZ100

Replaces Sony NP-FZ100

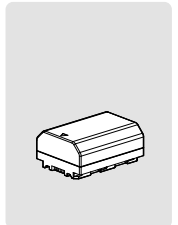
### Main Features:

- High Capacity

### Specifications:

- Nominal Voltage: 7.2V
- Nominal Capacity: 2250mAh — 16Wh
- Weight: 78g

**Warning**  
Do not charge in Turbo mode



## BMNPFV100

Replaces Sony NP-FV100

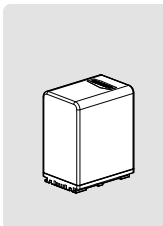
### Main Features:

- High Capacity

### Specifications:

- Nominal Voltage: 7.2V
- Nominal Capacity: 3100mAh — 22Wh
- Weight: 126g

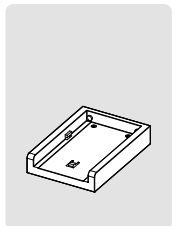
**Warning**  
Do not charge in Turbo mode



## Charger Adapter Plates

### Available charger adapter plates:

- |                       |                 |
|-----------------------|-----------------|
| BP-9 Series (8.4V)    | <b>CMAD975</b>  |
| BP-A Series (16.8V)   | <b>CMADBPA</b>  |
| LP-E6 Series (8.4V)   | <b>CMADLPE6</b> |
| JVC SSL Series (8.4V) | <b>CMADJVC</b>  |
| VW-VBD Series (8.4V)  | <b>CMADVBD</b>  |
| BP-U Series (16.8V)   | <b>CMADBPV</b>  |
| NP-F Series (8.4V)    | <b>CMADNPF</b>  |
| NP-FV Series (8.4V)   | <b>CMADNPFV</b> |
| NP-FZ Series (8.4V)   | <b>CMADNPFZ</b> |



## Warranty Information

BLUESHAPE batteries 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.

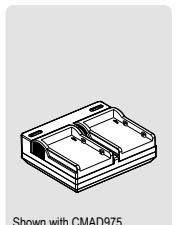
## CMDUAL-PD

### Main Features:

- Turbo Mode (2.0A - 2.5A per channel)
- Interchangeable Universal Plate System
- Charge Status LED
- USB Type-C® Input with PD 2.0 Protocol
- Includes 20V 65W USB PD AC Adapter

### Specifications:

- Nominal Charge Voltage: 8.4V; 16.8V
- Nominal Charge Current: 1.3A per channel
- Weight: 75g



Shown with CMAD975