



Energy inside

PROFESSIONAL BROADCAST

CAMERA BATTERIES

**GRANITE
TWO**

HDplus series: *all models launched in 2018*

V-Lock	3-Stud
BV100HDplus	BG100HDplus
BV190HDplus	BG190HDplus
BV290HDplus	BG290HDplus

Additional Information

Revision 1.0

OVERVIEW

The new series of **HDplus** batteries has been devised for applications that require extreme current draws like cinema cameras or lights.

These new batteries are designed to work without becoming overstressed or overheated when discharging full loads. Using highest quality raw materials and through clever design and construction techniques, BLUESHAPE has been able to create this series of professional batteries that borders on the limits of currently available technology.

SPECIFICATIONS

Parameter	BV100HDplus (VL ^{*1}) BG100HDplus (3S ^{*2})	BV190HDplus (VL ^{*1}) BG190HDplus (3S ^{*2})	BV290HDplus (VL ^{*1}) BG290HDplus (3S ^{*2})
Nominal Voltage	14.4V		
Operating voltage range	10.0 ~ 16.8V		
Nominal Capacity	6.7Ah	13.4Ah	20.2Ah
Nominal Energy	96Wh	193Wh	290Wh
Max Continuous Discharge	20A		
Max D-TAP combined output	5A		
Operating Temp.	-20° ~ +60°C		
IP rating	IP54		
Wi-Fi module	WiFi 2.4 GHz - 802.11 b/g/n		
Dimensions (L x W x H) mm	171x95x37	171x95x53	171x95x69
(L x W x H) in	6.73x3.74x1.45	6.73x3.74x2.08	6.73x3.74x2.71
Weight (net)	770g (1.68lbs)	1.19Kg(2.62lbs)	1.62Kg(3.57lbs)

*1 **VL: V-Lock** mount

*2 **3S: 3-Stud** mount

For all other specifications regarding safety, charging, storage and usage, Wi-Fi, please refer to the User Manual of the GRANITE TWO series.

These batteries are also the best (and highly recommended) choice for usage with our latest DC-DC voltage stepping camera adapters, MVAL-LF and MGAL-LF.

For users who are not familiar, these adapters have been designed to power ARRI® cameras requiring 20V or more, by using standard V-lock or 3-Stub batteries. This eliminates the need to set up an entirely different and non-standard gear of equipment to meet this latest demand for some of the most important novelties in the cinema production market.

RUNTIMES using MVAL-LF or MGAL-LF

Camera power specs.	Min W	Max W
1. ALEXA LF power draw (as declared by ARRI®)	120	160
2. Average power required from battery through MVAL-LF or MGAL-LF	125	167

Expected runtimes		minutes	
BV100HDplus – BG100HDplus	96Wh	46	35
BV190HDplus – BG190HDplus	193Wh	93	69
BV290HDplus – BG290HDplus	290Wh	139	105

Notes:

1. The power draw as declared by ARRI® can be considered ranging from 120W and 160W with an EVF and a Wireless transmitter, but no other accessories, depending on camera settings. Installing other accessories may increase the power draw and reduce the runtime.
2. Average power required from battery: due to the presence of the internal Step-up circuit of MVAL-LF, the battery has to release more energy than that required by the camera. Thanks to the high efficiency of the circuitry, the energy differential is minimal, saving power, reducing the energy losses and the heat generated by the device and so prolonging the camera runtime.

Warranty

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 there-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 shall 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.



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