



# EDEN

7595-0490

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88750007 EDEN US

88750008 EDEN UK

88750009 EDEN EU

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Original Instructions: English

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Important information on the safe installation and operation of this product. Read this information before operating the product. For your personal safety, read these instructions. Do not operate the product if you do not understand how to use it safely. Save these instructions for future reference.

### **Warning Symbols Used in these Instructions**

 **WARNING** Where there is a risk of personal injury or injury to others, comments appear supported by the warning triangle symbol. Where there is a risk of damage to the product, associated equipment, process or surroundings, comments appear supported by the word '**Caution**'.

 **DANGER** Where there is a risk of electric shock, comments appear supported by the hazardous voltage warning triangle.

### **Electrical Connection**

 **DANGER** Risk of electric shock. Do not remove cover, no user serviceable parts inside the product.

 **WARNING** Risk of electric shock. Always check cables for signs of damage. Damaged cables can cause personal injury and/or damage the equipment.

 **WARNING** Ensure an approved charging cable and MPPT accessories are used.

 **CAUTION** Do not exceed the current output limit of the product when powering auxiliary devices.

 **DANGER** Refer servicing to qualified service personnel.

 **WARNING** In the event of a fire, a dry chemical fire extinguisher should be used. If Fire Brigade attend they must be advised that the product has a Lithium-ion battery.

### **Operation**

 **WARNING** Special precautions and handling instructions are contained in this user guide and should be strictly adhered to for safe and reliable operation.

 **WARNING** Before turning on EDEN, check that all connected loads are switched off.

 **WARNING** Eden must not be used to operate life sustaining medical devices.

 **WARNING** Never use flammable or combustible materials and solvents around batteries or chargers.

 **WARNING** Do not insert foreign objects into the charging port, discharge port, or any other port.

⚠ **CAUTION** The product should not be used outside the operating temperature limits. Refer to the product technical specifications for the operating limits for the product.

⚠ **WARNING** Do not place the unit on unstable or inclined surfaces, ensure the area is well ventilated.

⚠ **WARNING** When cleaning the product, use a soft damp cloth only. Do not wet the exposed metal parts of the battery. Do not use solvents, detergents or scouring agents.

⚠ **CAUTION** Please keep Eden away from children or pets.

⚠ **DANGER** Do not drop, puncture or crush this battery. Do not use the battery if the case is damaged or broken. Do not open or attempt to service this battery if damaged.

⚠ **WARNING** These electronic devices can be damaged if the battery is subject to abuse or damage. Do not use a battery that has been subjected to excessive mechanical shock or water damage.

⚠ **WARNING** In the event of a malfunction, please shutdown immediately.

⚠ **WARNING** Do not use as a work bench.

⚠ **WARNING** If the Eden is damaged or not used properly, steam may escape. The steam can irritate the respiratory tract, in this

instance fresh air and a well ventilated area should be supplied, adverse reactions will need medical attention immediately.

⚠ **WARNING** Use sufficient length cable

### Maintenance

⚠ **DANGER** The fitting of non-approved parts or accessories, or the carrying out of non-approved alterations or servicing can be dangerous and could affect the safety of the product. It may also invalidate the terms and conditions of the product warranty.

⚠ **DANGER** Never attempt to service this battery. Refer servicing to qualified service personnel.

⚠ **DANGER** Never attempt to open this battery. The electronic circuits inside the battery can be damaged causing malfunction and/or potential hazard to person and property.

⚠ **CAUTION** Store Eden in a cool, dry place with an ideal temperature range of 20°C-30°C, For safety, do not store below -10°C or above 45°C for long periods of time.

🔄 It is recommended to cycle every 6 months to maintain the health of the battery.

🔄 If the SOC drops to 0 (while running or starting), take the following steps to safely charge and start the device:

1. Shut down immediately.
2. Charge within 24 hours.
3. Rest for at least an hour before charging it.

Periodic cleaning of both the charger terminals and battery terminals will ensure continued reliable operation. Clean the terminals occasionally with a pencil eraser or lightly scrape the surface with a blunt instrument to help reduce the likely hood of build up causing poor communication or charging. Contact Anton/Bauer Customer Support Group with additional inquiries as to maintenance.

### **Storage**

⚠ **CAUTION** Charge batteries at room temperature. In warm climates keep chargers in air conditioned rooms for best performance.

⚠ **CAUTION** Batteries should be stored in a fully charged state with the button in the OFF position and all electrical connections removed, to minimize the self-discharge. The battery will "wake up" with the push of the button if it hasn't self-discharged entirely, otherwise will "wake up" when placed on a charger.

⚠ Do not use cranes or other lifting equipment to move Eden.

⚠ Store Eden in a safe not explosive environment.

⚠ **CAUTION** If the battery is less than 10% after use, please charge to 80% before storing. If it is idle for a long time in the case of severe power shortage, it will cause irreversible damage to the battery cell and shorten the service life of the product

⚠ If the Eden has not been used for more than three months, charge it to 40%-60% SOC to keep it in top condition.



Eden Series battery maybe disallowed even when the conditions described above are satisfied. Anton/Bauer therefore strongly recommends that you consult with your transportation company prior to transporting the battery pack.

Dangerous Goods Regulations 49CFR Parts 100-185, International Air Transport Association (IATA) and the International Civil Aviation Organization (ICAO) regulations apply to all Lithium-Ion battery transport.

## **Air Transportation Declaration**

Videndum Production Solutions, declares that the Anton/Bauer Eden Lithium-Ion battery packs contain equivalent Lithium content (ELC) in a quantity exceeding 8 grams and therefore is considered and must be handled and transported as a class 9 Hazardous article and is subject to regulation under Dangerous Good Regulations.

## **49CFR PARTS 100-185**

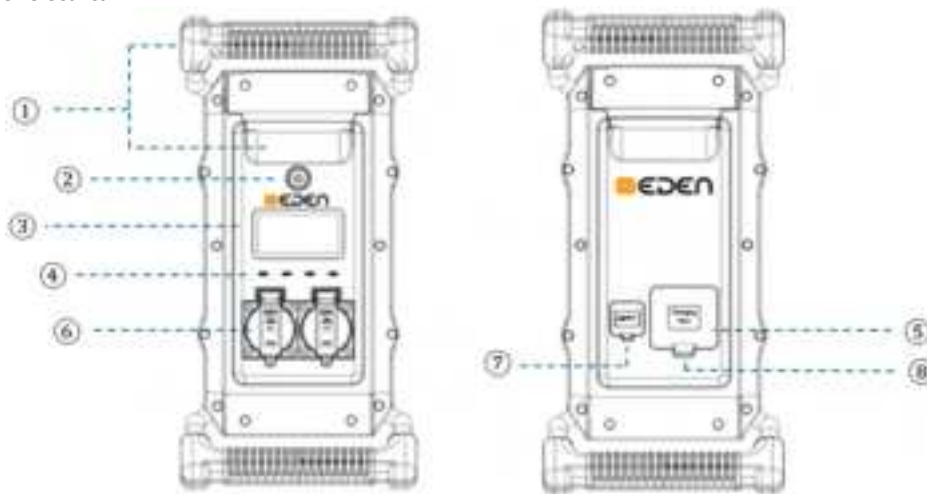
Since the interpretation and application of regulations may vary with the aviation company, the transport of the Anton/Bauer

EDEN is an off-grid portable energy storage power generation system with a built-in long-cycle lithium-ion battery pack and a high-strength aluminum alloy body. The unit is available in two power supply options, either via the matching charging cable or via the Maximum Power Point Tracking adapter (see optional accessories). AC 230V output to power any electrical equipment up to 2500W in total (EU/UK Units) 110Vac output to power electrical equipment up to 2500W (US Units)

EDEN can be used to supply power to any electronic device such as power tools, outdoor activities, self-driving trips, home backup power, lighting, etc.

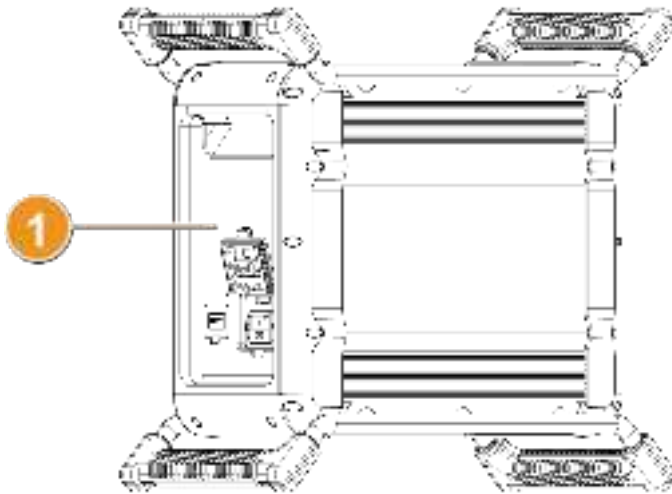
### Front and Back View

| NO. | Description       |
|-----|-------------------|
| 1   | Handle            |
| 2   | Power Switch      |
| 3   | LCD Display       |
| 4   | USB-C Port        |
| 5   | AC Charging Point |
| 6   | PV Charging Point |
| 7   | AC Output Port    |
| 8   | Breaker Fuse      |



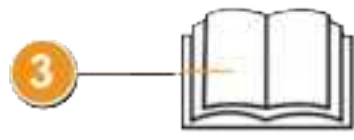


## Box Contents



| Item | Description                                |
|------|--------------------------------------------|
| 1    | Eden Battery                               |
| 2    | AC Charging Cable                          |
| 3    | User Manual                                |
| 4    | Ip65 rated covers x 2 (not shown on image) |

 **Note:** The Maximum power point tracking adapter is an optional accessory.



## AC Charge

In the state of power ON or OFF, you can charge the EDEN AC, directly plug in the AC charging cable, the internal circuit starts charging in about 3 seconds of self-test, and LED will automatically light up to display the charging status. . The indicator ring bar outside the SOC displays a progressive animation in clockwise direction.



### **Note:**

- Insert the charging socket to EDEN charging port first before plugging it to the mains

- When the State of charge shows 100%, the actual charging process is over. It is advisable to extend the charging time during your first charging process. This allows the device to do self-calibration.
- AC charging power is gradually increasing every minute and will stabilize when maximum charging power is reach.



- Battery charge percentage
- Remaining charge time
- Remaining run time

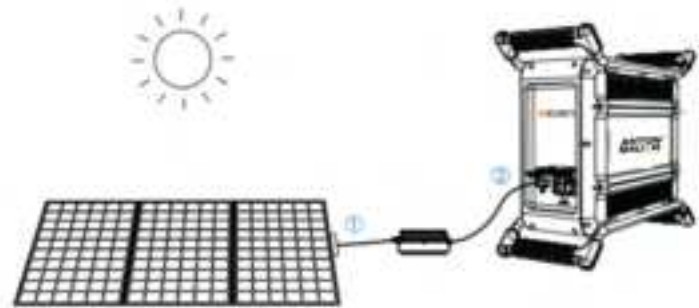
### PV Charge

EDEN has a Photovoltaic (PV) charging function, it should be noted that it must be used with the Anton Bauer matching Maximum power point tracking adapter.

In the state of power ON or OFF, you can charge the EDEN, directly plug-in the DC charging cable (XT90), the circuit will start charging in about 3 seconds to lay self-testing. The LED Monitor shows percentage battery is charged too and advice in hours for full battery charge.

#### **Note:**

- PV charging energy depends on sunlight, it is recommended to use PV charging when the sunlight is sufficient.
- The maximum power of PV charging is 500W, and the actual power may be lower than the maximum power due to the angle of sunlight refraction. Note that power mentioned depends on the solar panel that you will avail.
- Please make sure your solar panel complies with: Open Circuit Voltage: 15Vdc ~ 60Vdc Input Power: 500W Max



### DC Output

Once Eden is powered ON, the USB ports will automatically become active and available for supply.

 **Note:** USB-C x 2 ( PD 100W), UB-C x 2 (5V2A)

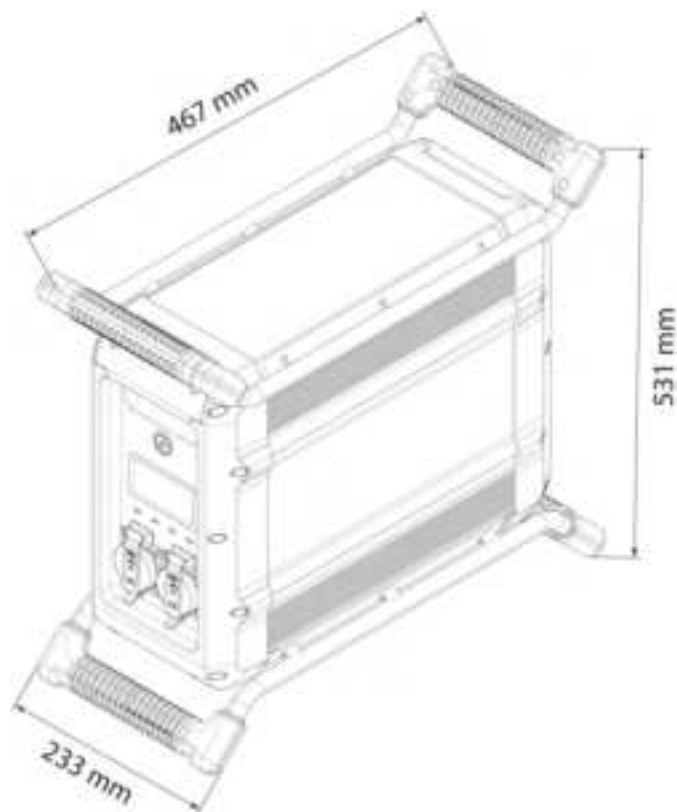
| Basic Parameters        | Anton Bauer US                  | Anton Bauer EU / UK             |
|-------------------------|---------------------------------|---------------------------------|
| <b>Cell Chemistry</b>   | Lithium-ion                     | Lithium-ion                     |
| <b>Capacity</b>         | 2500 Wh                         | 2500 Wh                         |
| <b>Nominal Power</b>    | 2500W                           | 2500W                           |
| <b>Max Power</b>        | 3540W @30 sec                   | 3740W @30sec                    |
| <b>Output Voltage</b>   | 120V / 60 Hz<br>rated           | 230V / 50 Hz<br>rated           |
| <b>Charging Voltage</b> | 100-120V 60 Hz                  | 100-250V 50/60 Hz               |
| <b>Charging Power</b>   | 1000W                           | 1000W                           |
| <b>Output Socket</b>    | Continental majority std. (2x)  | Continental majority std. (2x)  |
| <b>Input Socket</b>     | C14 connector                   | C14 connector                   |
| <b>Weight</b>           | 25 kg                           | 25 kg                           |
| <b>Dimensions H,W,D</b> | 531 x 233 x 467 mm incl. handle | 531 x 233 x 467 mm incl. handle |

| Basic Parameters             | Anton Bauer US             | Anton Bauer EU / UK        |
|------------------------------|----------------------------|----------------------------|
| <b>Degree of Protection</b>  | IP65 all cover closed      | IP65 all cover closed      |
| <b>Operating Temperature</b> | -10°C to 60°C              | -10°C to 60°C              |
| <b>Charging Temperature</b>  | 0°C to 45°C                | 0°C to 45°C                |
| <b>Certification</b>         | UN38.3; UL                 | UN38.3; CE                 |
| <b>Indicators</b>            | LCD Display                | LCD Display                |
| <b>Accessories</b>           | 2 PD USB-C and 2 typ USB-C | 2 PD USB-C and 2 typ USB-C |
| <b>MPPT</b>                  | 30 to 60Vdc; 8.5A          | 30 to 60Vdc; 8.5A          |
| <b>Solar Panel</b>           | 500W                       | 500W                       |
| <b>Enclosure type</b>        | Aluminum                   | Aluminum                   |



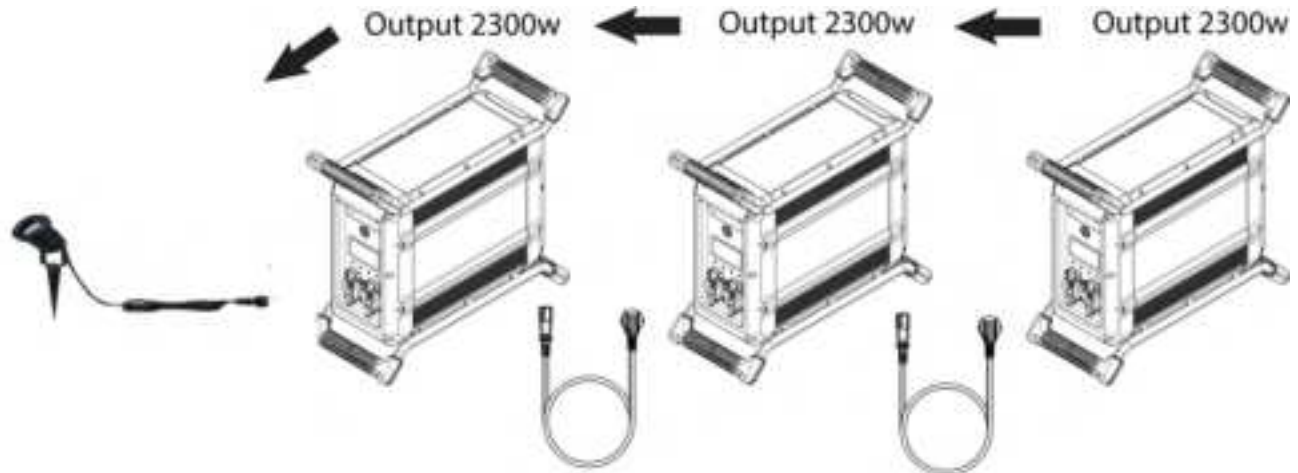
**Note:** EDEN has the ability to act like a UPS.

### Dimensions



## Daisy Chain

The EDEN has the function of expanding the storage capacity by connecting several units together. The connected devices are discharged one after the other, starting with the first device. As soon as this is “empty”, the next coupled device is switched on with a minimum delay of 10 ms, so that an uninterrupted power supply is guaranteed.



⚠ An increase in performance (e.g. to 7200W peak) is not possible, it only relates to the storage capacity.

# Troubleshooting

|                                                                                   |                                                      |                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | BAT charge and discharge low temperature protection  | Move Eden to a warmer place and wait for it to recover automatically                                                                                                              |
|  | BAT charge and discharge high temperature protection | In this case, stop using the Eden and wait for its temperature to decrease and then automatically recover, or reduce the output power to reduce the temperature rise of the Eden. |
|  | Charging                                             | Automatic recovery on full charge                                                                                                                                                 |
|  | Inverter fault protection                            | Remove the AC device and restart the machine to restore                                                                                                                           |
|  | BAT fail safe                                        | Remove the AC device & restart the machine to restore                                                                                                                             |
|  | AC output overload protection                        | Remove the overpowered device and restart the machine to recover. (Electrical equipment must be used within the rated power)                                                      |

|                                                                                   |                                   |                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Battery under voltage protection  | Please charge Eden                                                                                                                                                                            |
|  | Battery overload protection       | Remove from charging                                                                                                                                                                          |
|  | Inverter short circuit protection | Please check socket or device being plugged in check for cause of short. Remove short circuit source and reboot the Eden                                                                      |
|  | Inverter overload protection      | Device plugged in power is too high. Don't use the max operation or not permissible if device rating is higher than the Eden ratings. Lessen the load on AC output and operation will recover |
|  | Inverter over current protection  |                                                                                                                                                                                               |
|  | Technical error                   | Turn-off the unit and stage on a cool well-ventilated and isolated place. Contact the customer service.                                                                                       |

- Q1 : How long does it take to fully charge?  
A : A full charge takes 2.5 hours.
- Q2 : Why can't EDEN be fully charged?  
A : Perform calibration process by fully charging and discharging the device.
- Q3 : Why does EDEN shut down automatically?  
A : 1 ) The battery needs to be charged.  
A: 2) If the AC and DC power switches are turned ON, but there is no input and output for 30 minutes, the EDEN will automatically shut down and enter the low- power mode.
- Q4 : Can I use a third-party solar panel to charge my EDEN?  
A : Yes, if the solar panel specifications are within the following ranges:
  1. Open circuit voltage: 15Vdc-60Vdc
  2. Output power: 500W Max
  3. Use the same connector (MC4)
  4. Don't mix different types of solar panels
- Q5 : How long does it take to switch UPS?  
A : 15ms.
- Q6 : How do I know if my device will work well with this product?  
A : Please evaluate the total power of your device, if it does not exceed 2500W, EDEN can run your device well.

**Note:** Some devices with built-in motors/compressors may start at 2-4 times the rated power, which can easily overload the EDEN.

- Q7 : How do I clean my EDEN?  
A : Please use a dry or partially wet soft, clean cloth or paper towel to wipe EDEN.
- Q8 : Is the actual discharge capacity of the EDEN consistent with the nominal capacity in the user manual?  
A : The target capacity of the user manual is the nominal capacity of the EDEN

battery pack, and the EDEN has a certain efficiency loss during the charging and discharging process, so the actual discharge capacity of the EDEN is lower than the nominal capacity of the user manual.



## Warranty



This warranty for the product specified in this document ("Product") is given by Videndum Production Solutions ("Anton/Bauer"), 14 Progress Drive, Shelton, Connecticut 06484. If you (the purchaser of the Product from Anton/Bauer, or the person for whom the Product was purchased, if it was a gift) have any questions regarding Product applications, Product specification, or to obtain warranty service on this or any Anton/Bauer product, contact the company at the address above.

THIS PRODUCT MUST BE REGISTERED WITH ANTON/BAUER WITHIN 30 DAYS OF PURCHASE TO ENSURE WARRANTY COVERAGE.  
REGISTER ONLINE AT:

Warranty 24 months: Anton/Bauer will repair or replace the Product at Anton/Bauer's option and cost.

This warranty shall be effective only if Anton/Bauer receives notice of such defects in materials or workmanship during the period of the warranty. The liability of Anton/Bauer hereunder is expressly limited to a claim for repair or replacement of the Product or as otherwise stated herein at Anton/Bauer's sole discretion. Notice of any claim under this warranty shall be delivered to Anton/Bauer during the period of the warranty and the Product shall be returned with its packaging promptly, at your expense, to an Anton/Bauer Customer.

Support Center or to the address above. Upon receipt of the Product and a record of your compliance with the conditions of this warranty, Anton/Bauer will repair or replace the Product and return it to you, or issue a credit, as applicable. You are responsible for all shipping and handling charges to and from authorized facility.

THIS WARRANTY DOES NOT APPLY TO AND IS VOID IN THE CASE OF DEFECTS OR DAMAGE RESULTING FROM ACCIDENTS, DISASTER, NEGLIGENCE, MISUSE, IMPROPER INSTALLATION, IMPROPER OR UNAUTHORIZED SERVICE OR MAINTENANCE, UNAUTHORIZED REPLACEMENT PARTS OR ATTACHMENTS; OR DYSFUNCTION OR MALFUNCTION OF, OR CAUSED BY, ANY OTHER PRODUCT OR DEVICE.

Misuse includes any use of the Product in other than its intended application, including the use of this Product with any charging device or accessory not manufactured by and/or specified by Anton/Bauer. This warranty does not cover, and Anton/Bauer assumes no responsibility for, any equipment or devices used in conjunction with the Product.

ANTON/BAUER DISCLAIMS ANY LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY WRITTEN OR IMPLIED WARRANTY OF THE PRODUCT. UNDER NO CIRCUMSTANCES WILL ANTON/BAUER BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

This Warranty is to be construed and enforced in accordance with the law of the State of Connecticut, including the provisions of the Uniform Commercial Code as adopted and from time to time amended in the State of Connecticut, and not the Convention for the International Sale of Goods. This choice of Connecticut law is exclusive of any Connecticut law that would require reliance on any law foreign to Connecticut.

Should any action of law or in equity be brought by any person under this Warranty, such action shall be brought only in the United States District Court for the District of Connecticut, or in any Superior Court in Fairfield County, Connecticut, USA. Some states do not allow limitations on how long a warranty lasts, so the time period limitation herein may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may have other legal rights which may vary from state to state. Use of unauthorized equipment in conjunction with Anton/ Bauer products constitutes misuse under our warranties and may limit or void those warranties. Anton/Bauer does not authorize, condone, recommend, or otherwise assume any liability or responsibility resulting from the use of any battery, charger, or accessory made by Anton/Bauer with any battery, charger or accessory not manufactured, produced or sold by Anton/Bauer. Anton/Bauer only authorizes the use of original Anton/Bauer products with

this Product. Use only original Anton/Bauer equipment with this Product.





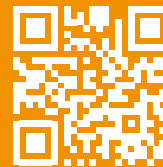


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