

POWER STATION **ADS**

# USER'S

# MANUAL

For Electric Fence Energizers, Chargers,  
Controllers, Fencers manufactured

 **100-240V**  
AC/DC ADAPTER

 **12V**  
Battery device

 **SOLAR**  
Built-in solar loader



# OPERATING INSTRUCTIONS

The ADS series has excellent functions, we have upgraded it, this product has a delicate LCD screen, which can automatically adjust the power of the fence system, and achieve excellent fence safety with the minimum current consumption. We also carefully consider the user experience and offer unique and maximal flexibility and a variety of combinations of power sources, such as 12V, 12+solar, and mains supply.

## 1 FIXING THE SOLAR PANEL

(metal fittings included)

## 2 WORKING STATUS INDICATOR LIGHT

Display-mode: exit-voltage in kv  
9.1kv=9100 volt

## 3 GEAR INDICATOR LIGHT

adjustment-mode: power-levels  
12v: 1 to 21

## 4 AC / SOLAR INDICATOR LIGHT

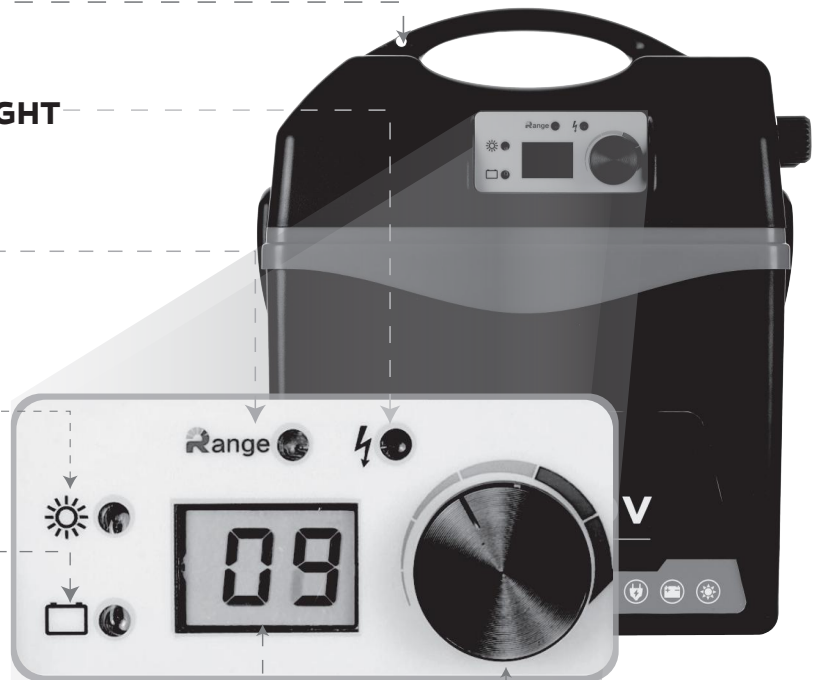
mains adapter resp.  
solar-module supplies current

## 5 BATTERY INDICATOR LIGHT

display-mode:  
voltage of accumulator/battery

## 6 LED CONTROL DISPLAY

## 7 ON/OFF SWITCH & ENERGY CONTROL

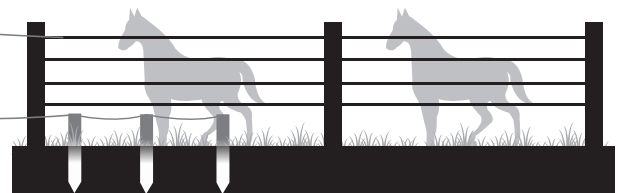
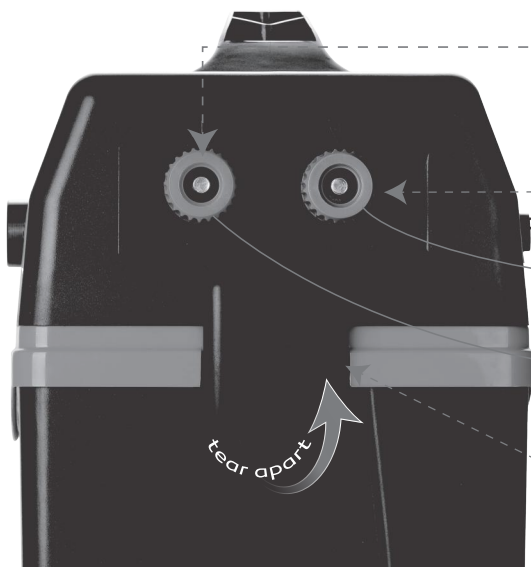


## 8 EARTH CONNECTION

Left side connects earth rod  
Recommended number of ground rods : 3

## 9 FENCE CONNECTION

Right side connects electric fence

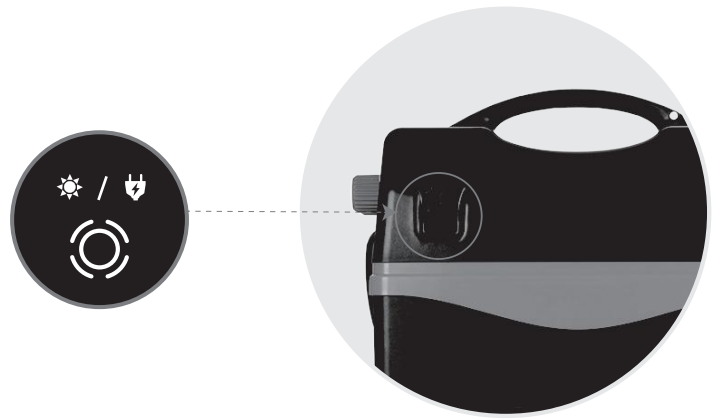


## 10 CLOSING-TABS

(for closing/to shut cover and housing)

## 11 CONNECTION HOLE

Solar /  
110-240V mains adapter connection/  
Charging battery



## OPERATING MODELS



### ON- / OFF SWITCH:

Press operating knob (7) for **1 sec**, The battery indicator light (5) is on, showing the battery voltage.



Press operating knob (7) for **3 sec**, the display goes into the adjustment-mode, the power-levels can now be adjusted .

After connecting the solar panel, the solar indicator light (4) will be on.

### ON- / OFF SWITCH:

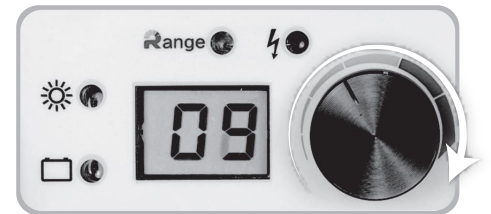
Press operating knob (7) for **3 sec**, the display shows "OFF",



The manual controller (1-21) is infinitely variable



Adjustable output voltage



## LCD-DISPLAY

### Tips 1

Display the gear first, such as 01 - 21



### Tips 3

Test power source voltage (AC/DC Adapter / battery/solar)



### Tips 2

Display the voltage the unit is kv



### b.) Starting the appliance without fence and earth connection: General:

The appliance is opened by mutual opening of the closing-tabs (10).

LCD-display Close the appliance solidly before a new start. Operate only in up standing position

# SAFETY & WARRANTY

## 12V - OPERATION

Always connect first the enclosed 12V- connection cable to the accumulator. Pay attention to correct polarity (red + and black -) when connecting the accumulator. Start the appliance by longer pressing (approximately 3 sec.) of the operating knob (7) without fence and earth.

If the fence voltage indicator light (2) flashes red and a voltage higher than 4KV is indicated on the display, the appliance is ready to start. If the accumulator indicator light (5) flashes red additionally, then the accumulator should be recharged soon (14V adapter connect to plug (11) can charge the battery) or being replaced soon. If only the accumulator indicator light (5) flashes red and the indicated fence voltage is 0.0, this means that the accumulator has to be changed. the accumulator has to be recharged without any delay. If none of the indicator lights is blinking and no value is indicated on the display, first check the polarity of the connection cable at the current source resp. contact your expert for a check.

In case of operation with a solar module/mains adapter, the accumulator should always be connected, before the solar-module/mains adapter is connected to the solar socket (otherwise the danger of a short circuit exists). Before connecting to the fence, switch OFF the appliance with the operating knob (7) and switch ON only after connecting again.

## OPERATION WITH A 110V-240V MAINS ADAPTER

### a.) 110V-240V–mains adapter-operation (without accumulator connected):

Put the plug of the 110V-240V-adapter into the solar-socket (11), and then connect with the mains supply.

### b.) 110V-240V–mains adapter operation with connected accumulator.

1. First connect the connection cable with the accumulator .
2. Put the plug of the 110V-240V-adapter into the solar-socket (11), and then connect with the mains supply.

### CAUTION:

- ! It is absolutely necessary to follow the stated sequence, otherwise the danger of a short circuit and damage of the electronics exists!

### c.) Functional description WITH connected fence system (fence + earth)

This appliance enables an extremely large adjustable range of the shock power. Beside that an excellent guarding security with lowest current-consumption is reached by the intelligent circuit-technology

### Installing and testing a ground system

#### Tip:

The fence energizer must be grounded sufficiently for the system to work effectively. Improper grounding can also cause

#### d.) Advices for the practical operating and the election of the attitude:

This fencer is a high-performance-appliance which should be driven only with very good grounding (min. 3 ground rods with 1 to 1.5m length) and fence wire material with a resistance of max. 0.15 ohms per meter, as otherwise a good regulation-function of this appliance cannot be reached.

After connection to fence and earth and switching ON the appliance, you begin with level 1 (if necessary turn the button as long to the left, until the display shows a "1"). Then increase step by step. If this voltage is at around 4 kV, a completely sufficient value is already reached for animals, which are easy to protect. For more insensitive animals, increase step by step until a fence-voltage of 5 or 6 kVs is reached.

Approximately 2 seconds after completion of the adjustment, the current fence voltage appears in the display

#### Hint:

Drive the appliance 2 days on maximum power when start fencing  
Training-effect for the animals!

If no sufficient fence-voltage is achievable and the appliance properly works without connected fence, the fence must be examined for short circuits, damages and excessive growth. Please eliminate the fault and adjust the appliance new after connection. Through daily observation of the fence-voltage-display, changes in the fence can be recognized immediately

(e.g. increase of the fence-voltage in case of interruption, decrease of the fence-voltage in case of growth or short circuits).

#### Hint:

If the indicator light flashes faster than approximately 1x per second, the appliance must be disconnected at once and checked by a technician before it can be used again.

In case of longer operating intermission the 12V accumulator should be disconnected from the appliance and be connected to a mains charger with conservation-phase. If there is no charger available, the accumulator should be recharged all 2 – 3 months in order to avoid low discharge damage.

**+1 YEARS**  
**WARRANTY**



Please see the attached Operating Instructions for safety tips

This equipment carries a 1-year warranty in accordance with our Warranty Terms & Conditions! Please see the attached Operating Instructions for safety tips, earthing, commissioning, maintenance of battery and accumulator, warranty terms and conditions and potential sources of fault!

