JVA

MONITORED FENCING

JUMBO RANGE

JMB32
ZM50

J-ZM2

2020/2021

Introduction

The JMB series is the most powerful and feature rich electric fence energizer JVA has manufactured to date. This continues JVA's push for technical superiority in the area of Monitored Electric Fencing and IP Energizers®. While the JMB energizers were specifically designed for game parks and exclusion fencing, they are also well suited to any large permanent electric fencing application. The JMB series produces up to a stunning 46J of stored energy, currently the world's largest battery powered energizer.

A monitored electric fence reduces maintenance by reporting whenever there is a fault and by allowing you to check the fence from wherever you are using the Internet.

The JMB series introduces the JVA Virtual Keypad. This allows you to monitor, control and program the energizer from your Wi-Fi enabled smart device (Phone, Tablet or Laptop). The JMB's can also be controlled and monitored with a wired JVA 4-Line Keypad supplied with the unit.
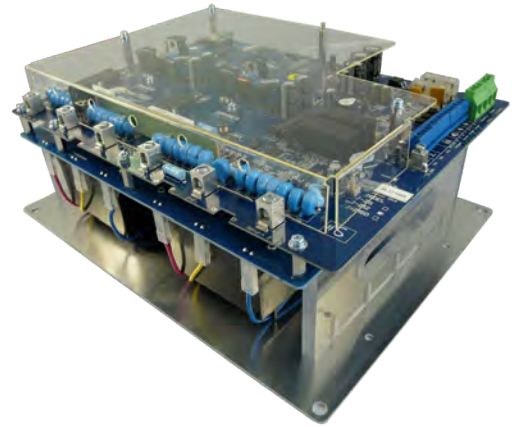
Features

- ➢ Combined electric fence energizer and monitor
- ➢ Power or Loop monitor depending on model
- ➢ Virtual Keypad via your Wi-Fi enabled device (smart phone, laptop etc.)
- ➢ Distant Fault Detection (DFD™) technology
- ➢ High powered (up to 46 Joules stored)
- ➢ Mains or 12V Battery powered (mains via supplied 24V plug pack)
- ➢ Lightning protection on all fence connections
- ➢ No mains inverter required to run on solar and battery
- ➢ Power on demand, meaning it only uses the power it needs for the fence conditions
- ➢ Able to be controlled and/or monitored through multiple options:
    - ➢ Virtual Keypad using on board Wi-Fi
    - ➢ Cloud Router (requires a Cloud Router account and Gateway)
    - ➢ Perimeter Patrol (requires a PC, TCP/IP Interface and Perimeter Patrol Licence)
    - ➢ Most JVA Z-Series Keypads (4-Line or Touch screen Keypad)
    - ➢ Fence Line Remote Control
- ➢ Built-in 1A backup battery charger
- ➢ 1 Siren and 2 Strobe 12V outputs for standalone security installations
- ➢ (switched 12V DC) ON/OFF switch
- ➢ Programmable relays

24/7 Fence Information available via GSM or Wi-Fi

Virtual Keypad Programming via Smart Device

JVA Jumbo Range

By incorporating Power Monitoring and our patented, Distant Fault Detection (DFD™) technology, the JMB-ZM1 and JMB-ZM2 models can be configured to monitor long fences without the need to create loops or install return wires to connect the end of the fence voltage back to the energizer. This is also known as 'Start of Fence' monitoring. For those who wish to use traditional 'End of Fence' monitoring, these models also have an optional fence return terminal.

JMB-ZM1

The JMB-ZM1 contains circuitry that allows it to power and monitor a single, high-power fence zone. The Power Monitor measures both the real and reactive components of the fence voltage and feed current. By doing so, it can detect a fault at distances beyond 10km from the Energizer.

Features

➢ Up to 46 Joules (stored) for better performance on long fences
➢ Measures Feed, Return and the Ground voltage
➢ Measures real and reactive Feed currents to distinguish real faults from capacitive fence currents
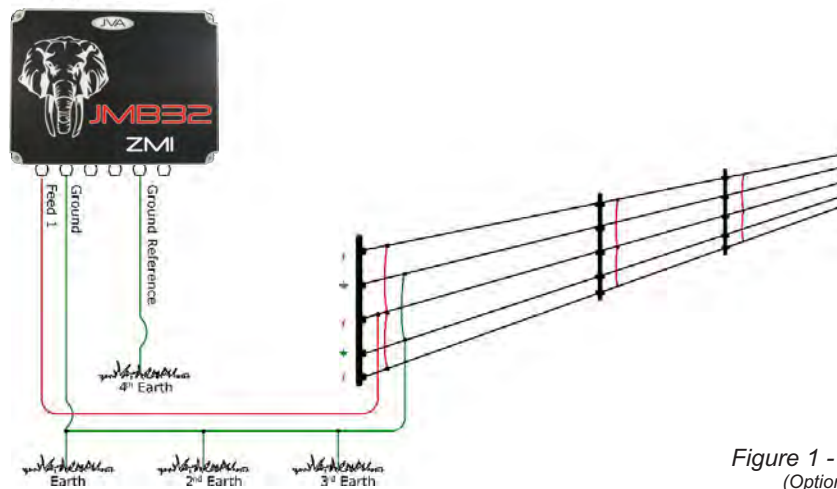➢ The JMB-ZM1 contains our patented Power Monitor with Distant Fault Detection (DFD™)

Figure 1 - Typical JMB-ZM1 DFD Setup
(Optional end of line fence return not shown)

JMB-ZM2

The JMB-ZM2 contains circuitry that allows it to power two separate fences. Each fence has its own Power Monitor and optional fence return terminal for end of fence voltage monitoring.

Features

➢ Two independent fence zones each with up to 23 Joules (stored)
➢ Synchronized outputs can be bridged for 46J (stored) into one fence
➢ Measures both zones Feed and Return and the Ground voltage
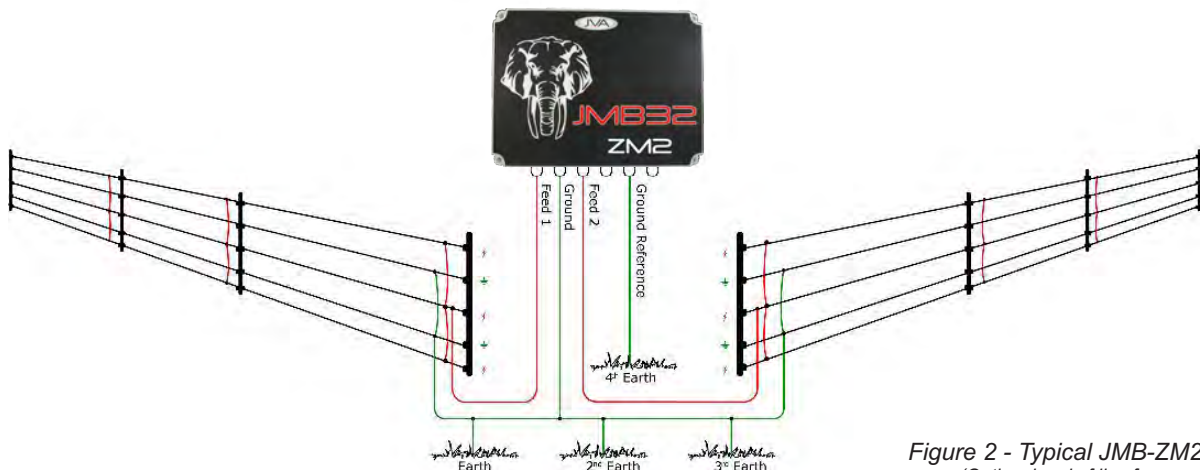➢ Measures real and reactive Feed currents to distinguish real faults from capacitive fence currents

Figure 2 - Typical JMB-ZM2 DFD Setup
(Optional end of line fence return not shown)

JMB-ZM50

The JMB-ZM50 contains our patented Loop Monitor with Distant Fault Detection (DFD™). The loop, or loops, of live wires may run down and back on the same fence or all the way around a property.

While previous fence loop monitors suffered from a range limitation of approximately 10km of fence or 30km of wire, DFD™ has greatly increased this range.

Features

➢ Can split a single fence into up to 50 sectors
➢ Can report the position of a fault as a percentage of overall fence length
➢ Short sectors can be accurately defined using JVA sector dividers
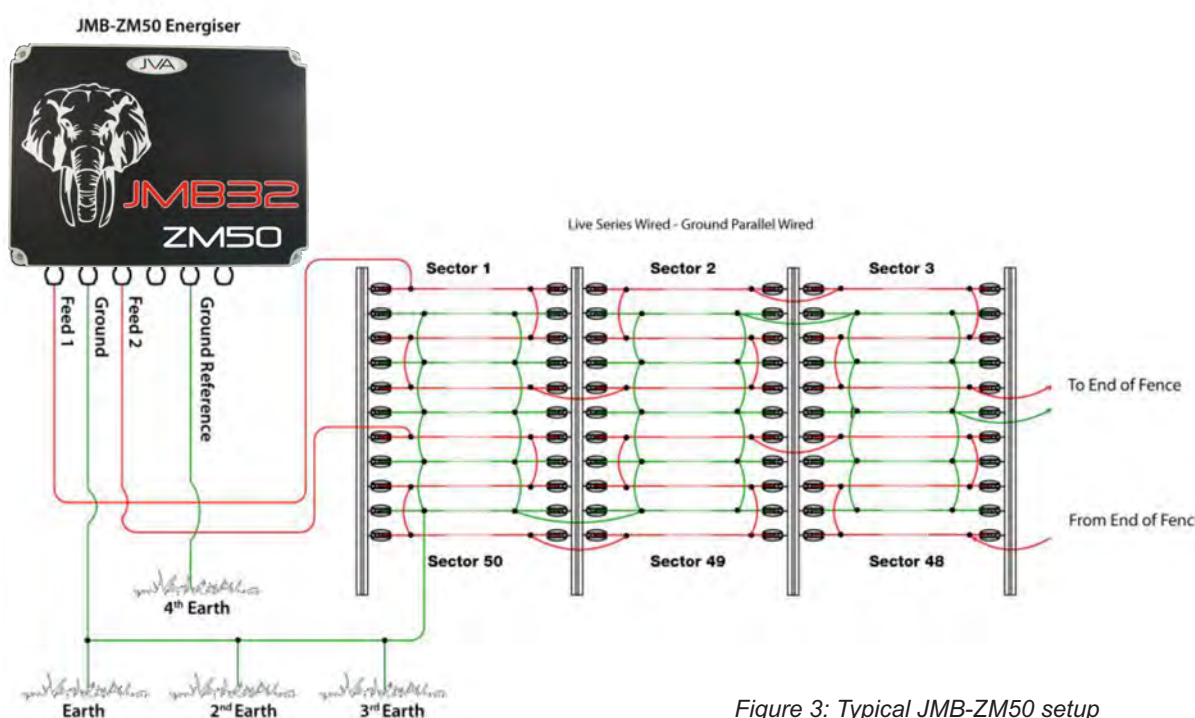➢ ELV (Extra-low Voltage) open circuit detection

Figure 3: Typical JMB-ZM50 setup

JVA Jumbo Range Specifications

Model	Stored Energy	Output Energy	Zones	Sectors	Input Voltage	Power Peak
JMB32ZM1	46	32	1	0	12 / 24V	3.6A at 13,5 Vdc
JMB32ZM2	2x23	2x16	2	0	12 / 24V	3.6A at 13,5 Vdc
JMB32ZM50	46	32	1	up to 50	12 / 24V	3.6A at 13,5 Vdc
JMB25ZM1	36	25	1	0	12 / 24V	2,8A at 13,5 Vdc
JMB25ZM2	2x18	2x12.5	2	0	12 / 24V	2,8A at 13,5 Vdc
JMB25ZM50	36	25	1	up to 50	12 / 24V	2,8A at 13,5 Vdc
JMB16ZM2	23	2x8	2	0	12 / 24V	2,5A at 13,5 Vdc
JMB8ZM1	11,5	8	1	0	12 / 24V	1,8A at 13,5 Vdc
JMB10ZM2	14	2x5	2	0	12 / 24V	2A at 13,5 Vdc
JMB8ZM50	11,5	8	1	up to 50	12 / 24V	1,8A at 13,5 Vdc
Solar Recommendation 32 Joule Units	Area Table 6 Hours Sun				350 W	200 AH Battery
Solar Recommendation 25 Joule Units	Area Table 6 Hours Sun				300 W	200 AH Battery
Solar Recommendation 8 Joule Units	Area Table 6 Hours Sun				150 W	100 AH Battery

JVA Perimeter Patrol

JVA Perimeter Patrol provides a visual representation (Mimic) of the property secured by the electric fence system. JVA Perimeter Patrol can be used to quickly view the status and voltages of electric fences and devices; alert and email the user when the fences, gates or other devices need attention; *arm/disarm* electric fences according to a custom schedule and remotely access electric fence systems.

Icons representing the energized zones are positioned over an image of the site map. Status and voltage information from the various zones throughout the site are updated in real time from a remote or central location. The PC speaker or external *Input/Output* interface board can be used to generate an audible alarm.

Using a Wi-Fi Network system around the farm the Perimeter Patrol system can also be integrated into other management requirements such as CCTV, water management and gate control. The PP *input/Output* interface board when linked to the network can operate pumps, gates, PTZ triggers centre pivots, etc. The Perimeter Patrol software enables one to control and manage one's property from anywhere in the world.

Associated Items

Fault Finder	Wi-Fi Module	GPIO Board	GSM
Y Type LDV	TCPIP Board	Perimeter Patrol	Android Keypad

JVA

MONITORED FENCING

AFFORDABLE - RELIABLE - ROBUST & THE BEST

JVA AUSTRALIA	JVA AFRICA	JVA NEW ZEALAND
JVA LATINO AMERICA	JVA CARIBBEAN	JVA SOUTH EAST ASIA
JVA EUROPE	JVA RUSSIA	JVA INDIA
JVA USA	JVA MEXICO	JVA BRAZIL
JVA MALAYSIA	JVA CENTRAL ASIA	JVA UNITED KINGDOM
JVA PAKISTAN	JVA PANAMA	JVA PHILIPPINES
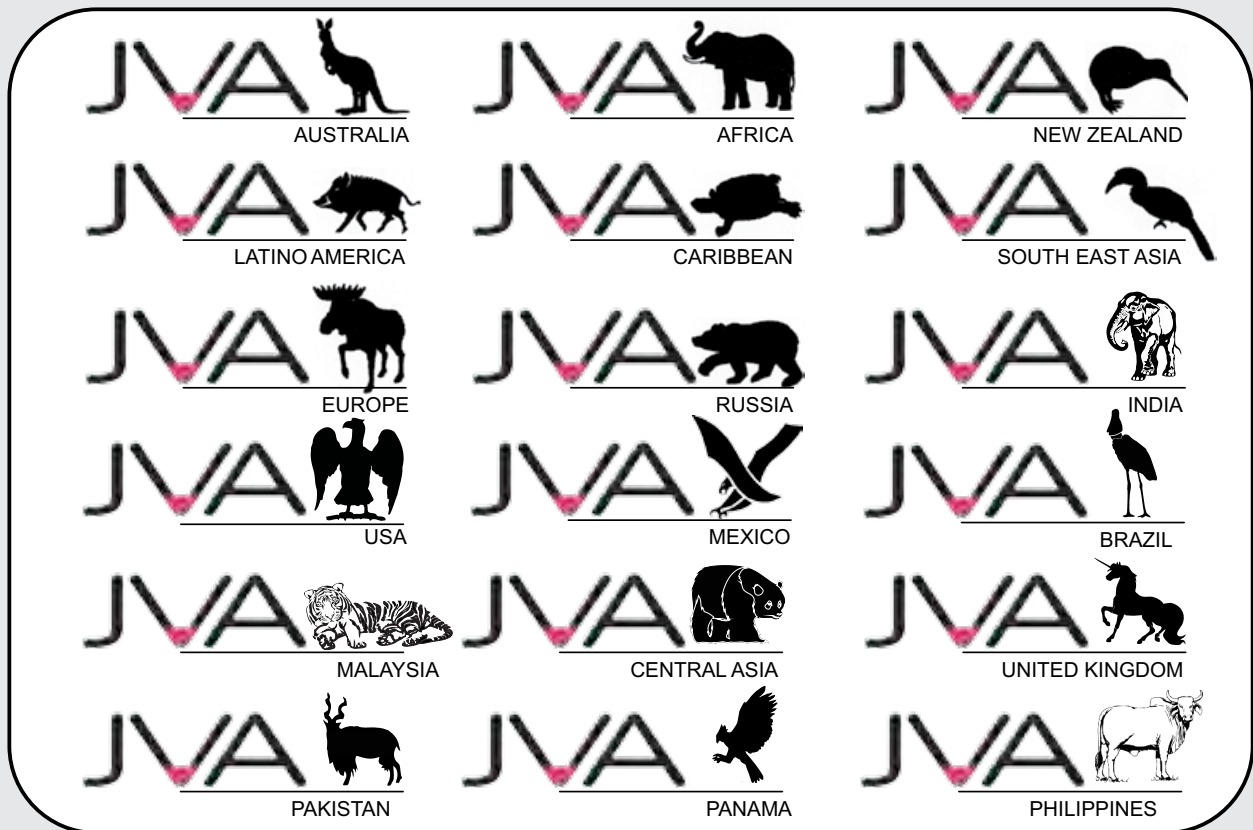
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