AGRI ENERGIZERS

Electric Fence Energizer Range

AGRI 50

Strainrite
FENCING SYSTEMS

APT
ADAPTIVE POWER TECHNOLOGY

A NEW GENERATION FOR ELECTRIC FENCING

Strainrite is proud to present our new Agri range of energizers powered by Nemtek, a world-leading developer and manufacturer of energizer technology.

Respected globally with over 25 years of experience in designing and delivering innovative electric fencing product technologies, Nemtek incorporates the Strainrite philosophy of providing quality, tested, and proven equipment to the market.

Strainrite's Agri energizers aim to provide you with the best solutions to meet and exceed your requirements. With features such as Adaptive Power Technology and eco-minded solutions such the LiFe battery.

CHOOSE QUALITY. CHOOSE STRAINRITE.

ADAPTIVE POWER TECHNOLOGY

Strainrite's Agri Energizers use of patented Adaptive Power Technology (APT) on selected models ensures maximum power is delivered to the fence while minimising power losses along the fence line. With APT the energizer detects and responds to changing environmental factors, such as weather conditions (wet/dry) and vegetation growth on the fence, and adapts to the changing needs of the fence by maximising fence power and efficiency underneath the point of arcing.

A safety benefit of APT is the reduced risk to stock being severely harmed by the energizer. APT detects the fault/stock on the line. It will reduce the charge to maintain the fence. APT will continue to test the fence line until the stock is cleared and then return to normal operating levels.

Graph depicting the fault / Arc level in **YELLOW** introduced.

APT in **GREEN** recognising the fault and maintaining the power under the arc level to the fence.

Common energizers in **RED** ramping up power to overcome fault and potentially going to dead short.

www.strainrite.co.nz

PET ENERGIZER

BATTERY OR MAINS POWERED

Features:

The Pet energizer is designed to keep pets out of specific areas such as flowerbeds, vegetable gardens and refuse areas. Also a great option for a backing gate.

- Powers up to 3km of fence
- Mains power adapter (Included)
- Mounting options (wall, fence wire or wood post)
- Robust weather-resistant system
- Lightning protection

UP TO 3km

KILOMETRES	3km
HECTARES	2ha
ACRES	5ac

OUTPUT ENERGY	0.3J
STORED ENERGY	0.5J
MAX VOLTAGE	7.5kV

Product	Part No.
Agri Pet 3	FEN00403

AGRI 5

BATTERY OR MAINS POWERED

Features:

- Powers up to 5km of fence
- Mains power adapter (Included)w
- Adaptive Power Technology Enabled
- Lightning protection
- Robust weather-resistant system
- Battery charge state indicator
- Energizer overload indicator
- Day/night sensor
- Mounting options (wall, fence wire or wood post)
- Optional LCD Remote Programmer

UP TO 5km

KILOMETRES	5km
HECTARES	2.8ha
ACRES	7ac

OUTPUT ENERGY	0.5J
STORED ENERGY	0.8J
MAX VOLTAGE	8.5kV

Product	Part No.
Agri 5	FEN00405

APT
ADAPTIVE POWER TECHNOLOGY

Optional

AGRI 10

BATTERY OR MAINS POWERED

Features:

- Powers up to 10km of fence
- Mains power adapter (Included)
- Adaptive Power Technology Enabled
- Lightning protection
- Robust weather-resistant system
- Battery charge state indicator
- Energizer overload indicator
- Day/night sensor
- Mounting options (wall, fence wire or wood post)

- Optional LCD Remote Programmer

UP TO 10km

KILOMETRES	10km
HECTARES	6.4ha
ACRES	16ac

OUTPUT ENERGY	1.0J
STORED ENERGY	1.65J
MAX VOLTAGE	10kV

Product	Part No.
Agri 10	FEN00410

APT
ADAPTIVE POWER TECHNOLOGY

Optional

AGRI 20

BATTERY OR MAINS POWERED

Features:

- Powers up to 20km of fence
- Mains power adapter (Included)
- Adaptive Power Technology Enabled
- Lightning protection
- Robust weather-resistant system
- Battery charge state indicator
- Energizer overload indicator
- Day/night sensor
- Mounting options (wall, fence wire or wood post)

- Optional LCD Remote Programmer

UP TO 20km

KILOMETRES	20km
HECTARES	12.8ha
ACRES	32ac

OUTPUT ENERGY	2.0J
STORED ENERGY	3.3J
MAX VOLTAGE	10kV

Product	Part No.
Agri 20	FEN00420

APT
ADAPTIVE POWER TECHNOLOGY

Optional

AGRI 30

BATTERY OR MAINS POWERED

Features:

- Powers up to 30km of fence
- Mains power adapter (Included)
- Adaptive Power Technology Enabled
- Lightning protection
- Robust weather-resistant system
- Battery charge state indicator
- Energizer overload indicator
- Day/night sensor
- Mounting options
  (wall, fence wire, wood post, Steel Post)

- 100Ah battery or greater recommended
- Optional LCD Remote Programmer

UP TO 30km

KILOMETRES	30km
HECTARES	20ha
ACRES	50ac

OUTPUT ENERGY	3.0J
STORED ENERGY	4.4J
MAX VOLTAGE	9kV

Product	Part No.
Agri 30	FEN00430

APT
ADAPTIVE POWER TECHNOLOGY

Optional

AGRI 50

BATTERY OR MAINS POWERED

Features:

- Powers up to 50km of fence
- Mains power adapter (Included)
- Adaptive Power Technology Enabled
- Lightning protection
- Robust weather-resistant system
- Battery charge state indicator
- Energizer overload indicator
- Day/night sensor
- Mounting options
  (wall, fence wire, wood post, Steel Post)

- 100Ah battery or greater recommended
- Optional LCD Remote Programmer

UP TO 50km

KILOMETRES	50km
HECTARES	32ha
ACRES	80ac

OUTPUT ENERGY	4.6J
STORED ENERGY	6.5J
MAX VOLTAGE	9kV

Product	Part No.
Agri 50	FEN00450

APT
ADAPTIVE POWER TECHNOLOGY

Optional

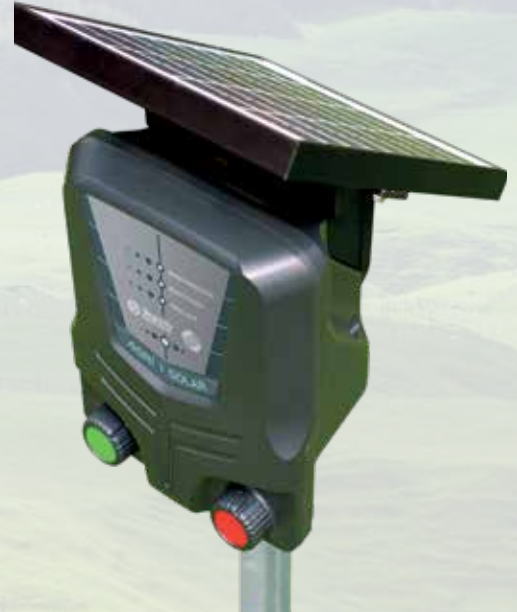## AGRI 1 SOLAR

SOLAR INTERNAL BATTERY

Features:

- Powers up to 1km of fence
- Large 5W solar panel for a quick charge
- Robust solar bracket and weather-resistant housing
- Steel Post mounting
- Solar panel charge state indicator
- Internal Lithium Iron Phosphate Battery (LiFe)
- Battery charge state indicator
- Deep sleep mode for battery safe mode storage
- On/off TAG to switch the energizer on and off
- Day/night sensor
- Lightning protection

UP TO 1km

KILOMETRES	1km
HECTARES	0.64ha
ACRES	1.6ac

OUTPUT ENERGY	0.10J
STORED ENERGY	0.125J
MAX VOLTAGE	7.1kV

Product	Part No.
Agri 1 Solar	FEN00501

LiFe BATTERY

AGRI 3 SOLAR

SOLAR INTERNAL BATTERY

Features:

- Powers up to 3km of fence
- Large 5W solar panel for a quick charge
- Robust solar bracket and weather-resistant housing
- Steel Post mounting
- Solar panel charge state indicator
- Internal Lithium Iron Phosphate Battery (LiFe)
- Battery charge state indicator
- Deep sleep mode for battery safe mode storage
- On/off TAG to switch the energizer on and off
- Day/night sensor
- Lightning protection

UP TO 3km

KILOMETRES	3km
HECTARES	2ha
ACRES	5ac

OUTPUT ENERGY	0.26J
STORED ENERGY	0.33J
MAX VOLTAGE	10kV

Product	Part No.
Agri 3 Solar	FEN00503

LiFe BATTERY

LiFe BATTERY

Solar energizers marked with the LiFe Battery logo contain an environmentally-friendly battery.

LiFe Battery utilises advanced Lithium Iron Phosphate (LifePO4) batteries which are superior to standard chemical batteries and can be disposed of in general waste.

AGRI 5 SOLAR

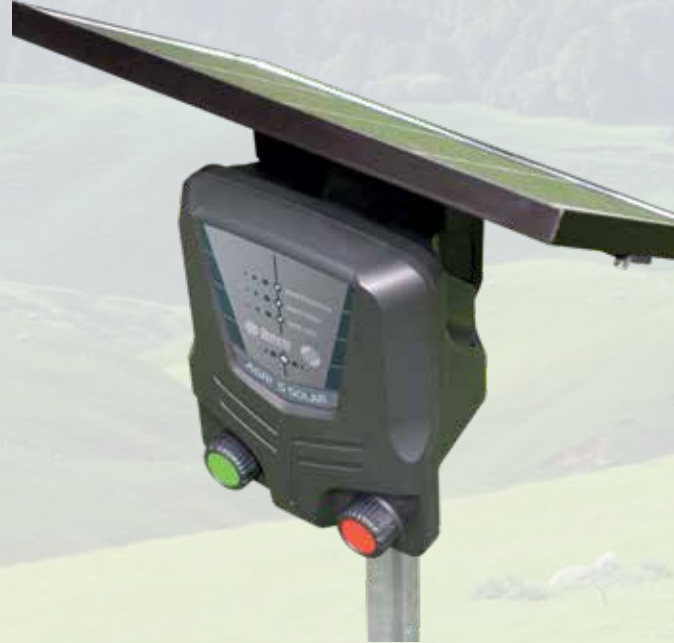**SOLAR INTERNAL BATTERY**

Features:

- Powers up to 5km of fence
- Large 10W solar panel for a quick charge
- Robust solar bracket and weather-resistant housing
- Steel Post mounting
- Solar panel charge state indicator
- Internal Lithium Iron Phosphate Battery (LiFe)
- Battery charge state indicator
- Deep sleep mode for battery safe mode storage
- On/off TAG to switch the energizer on and off
- Day/night sensor
- Lightning protection

UP TO 5km

KILOMETRES	5km
HECTARES	2.8ha
ACRES	7ac

OUTPUT ENERGY	0.47J
STORED ENERGY	0.55J
MAX VOLTAGE	12kV

Product	Part No.
Agri 5 Solar	FEN00505

LiFe BATTERY

AGRI 8 SOLAR

SOLAR INTERNAL BATTERY

Features:

- Powers up to 8km of fence
- Large 10W solar panel for a quick charge
- Robust solar bracket and weather-resistant housing
- Steel Post mounting
- Solar panel charge state indicator
- Internal Lithium Iron Phosphate Battery (LiFe)
- Battery charge state indicator
- Deep sleep mode for battery safe mode storage
- On/off TAG to switch the energizer on and off
- Day/night sensor
- Lightning protection

UP TO 8km

KILOMETRES	8km
HECTARES	5.4ha
ACRES	12.8ac

OUTPUT ENERGY	0.68J
STORED ENERGY	0.825J
MAX VOLTAGE	12kV

Product	Part No.
Agri 8 Solar	FEN00508

LiFe BATTERY

LiFe BATTERY

SAFE No caustic or hazardous materials.

RELIABLE Long life cycle with no memory fade

READY Exceedingly long shelf life, can sit in storage for a long period and remains deployment ready

2 YEAR FACTORY WARRANTY ON BATTERY

Powered by
NEMTEK

Strainrite
FENCING SYSTEMS

AGRI 25 SOLAR

SOLAR OR BATTERY

Features:

- Powers up to 25km of fence
- Large 20W solar panel
- Adaptive Power Technology Enabled
- Robust weather-resistant system
- Built-in solar regulator with a power management system for easier connection and portability
- Built-in battery polarity protection
- Battery charge state indicator
- Energizer overload indicator
- Day/night sensor
- Steel Post mounting
- Lightning protection

- 100Ah battery or greater recommended
- Optional LCD Remote Programmer

UP TO 25km

KILOMETRES	25km
HECTARES	16ha
ACRES	40ac

OUTPUT ENERGY	2.3J
STORED ENERGY	3.1J
MAX VOLTAGE	9kV

Product	Part No.
Agri 25 Solar	FEN00525

APT
ADAPTIVE POWER TECHNOLOGY

Optional

AGRI 50 SOLAR

SOLAR OR BATTERY

Features:

- Powers up to 50km of fence
- Large 40W solar panel
- Adaptive Power Technology Enabled
- Robust weather-resistant system
- Built-in solar regulator with a power management system for easier connection and portability
- Built-in battery polarity protection
- Battery charge state indicator
- Energizer overload indicator
- Day/night sensor
- Steel Post mounting
- Lightning protection
- Angle-adjustable solar mounting bracket included (mounting pole not included)

- 100Ah battery or greater recommended
- Optional LCD Remote Programmer

UP TO 50km

KILOMETRES	50km
HECTARES	32ha
ACRES	80ac

OUTPUT ENERGY	4.6J
STORED ENERGY	6.5J
MAX VOLTAGE	9kV

Product	Part No.
Agri 50 Solar	FEN00550

APT
ADAPTIVE POWER TECHNOLOGY

Optional

www.strainrite.co.nz

DRUID 114

MAINS / BATTERY BACK UP OR SOLAR

Features:

- Powers up to 130km of fence
- Powered by 240V mains includes built-in battery for back-up
- Ideal choice for long distance parallel electric fencing systems
- Adaptive Power Technology Enabled
- Built-in alarm monitors faults on the high voltage and earth fence wires
- Lightning and power surge protection
- Easy-to-use tag included for controlling the energizer
- The LCD background colour changes to fence condition

- Optional keypad for controlling and programming the energizer.

UP TO
130km

KILOMETRES	130km
HECTARES	82ha
ACRES	200ac

OUTPUT ENERGY	13.8J
STORED ENERGY	21J
MAX VOLTAGE	9kV

Product	Part No.
Druid 114	FEN00490
Keypad	FEN00491

APT
ADAPTIVE POWER TECHNOLOGY

LCD REMOTE PROGRAMMER

Features:

- Adjustable fence voltage
- Adjustable pulse rate
- Adjustable day/night mode
- Adjustable overload indicator
- Battery voltage report
- Fence voltage report
- Energizer security lock
- Built-in torch

Part No.
FEA00140

LIGHTNING INHIBITOR & DIVERTER

Features:

- Inhibits lightning to energizer
- Diverts lightning to earth
- Stainless steel parts
- UV stabilised housing
- Can sustain multiple strikes

Part No.
FLD00030

FENCE SCOPE

Features:

- The Fence Scope is a 4 in 1 tool, which helps diagnose problems on your fence to optimise electric fence installation and ensure that the fence continues to operate at ideal levels
- Fence Probe mode: quickly indicates the direction of a fence fault, showing the voltage and current
- Fence energy mode: accurately measures the true output energy along the fence.
- Fence scope mode –this can record and display wave forms of the electric fence pulse. Distortions in the wave form (wave shape) generally indicate that there are fence faults
- Fence noise mode: assists in finding cracked or broken insulators, sparks and shorts along the fence.

Product	Part No.
Fence Scope	FEA00150
Fence Scope Pouch	FEA00160

Powered by
NEMTEK

Strainrite FENCING SYSTEMS

FLOOD GATE CONTROLLER

Features:

- Prevents fence from shorting
- Reduces power loss when the flood water contacts the electric fence line

Product	Part No.
Flood Gate Controller	FFI00020

FENCE FLASHER

Features:

- Indicates power on the fence
- Visible from up to 1km at night
- No batteries required
- The frequency of the flashing LEDs indicates the amount of energy on the fence, The longer the period between flashes, the lower the voltage on the fence
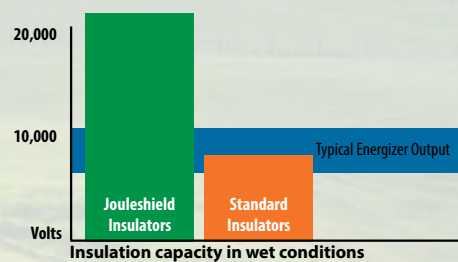
Product	Part No.
Fence Flasher	FEA00130

JOULE SHIELD WOOD POST INSULATORS

Features:

- Twin shield reduces power loss
- Reinforced web back bracing
- Thicker insulator walls
- Rounded surfaces to shed water
- Long life plastic polymer
- High performance Insulator

Insulation capacity in wet conditions
(Jouleshield Insulators, Standard Insulators, Typical Energizer Output — Volts: 10,000 / 20,000)

Product	Part No.
Wood Post Claw 25 Pack	FIN00070
Wood Post Pinlock 25 Pack	FIN00080
Wood Post Claw 200 Pack	FIN00078
Wood Post Pinlock 200 Pack	FIN00088

See the full range of insulators at www.strainrite.co.nz

ENERGIZER EARTH TIPS

Installing a good earth system is the key to getting maximum effieciency off your energizer.

The earth is an essential component of your fencing system. Power travels from the energizer, along the fence wire and back through the ground to the energizer to complete the circuit.

The earth must be as conductive as possible for the fence to give the animal an effective shock.
A simple guide is one earth stake for every 5 joules of stored energy with a minimum of three earth stakes.

Spacing approximately 5m apart with 2m Strainrite galvanised earth stakes connected by one continuous wire.

For example;   0-15 Stored Joules.   Use a minimum of 3 stakes spaced 5m apart

Depending on your soil types the number of earth stakes you require may vary.
For example; dry soil is less conductive than wet soil requiring more earth stakes to compensate.

Product	Part No.
Earth Stake	FES00010

AGRI ENERGIZERS
Electric Fence Energizer Range

MAINS AND BATTERY

MODEL	Agri Pet 3	Agri 5	Agri 10	Agri 20	Agri 30	Agri 50
Product code	FEN00403	FEN00405	FEN00410	FEN00420	FEN00430	FEN00450
Powers maximum fence length (optimal fence conditions)	3km 5 acres/2ha	5km 7 acres/2.8ha	10km 16 acres/6.4ha	20km 32 acres/12.8ha	30km 50 acres/20ha	50km 80 acres/32ha
Stored energy (Joules)	0.5J	0.8J	1.65J	3.3J	4.4J	6.5J
Maximum output energy (Joules)	0.3J	0.5J	1.0J	2.0J	3.0J	4.6J
Voltage output circuit	7.5kV	8.5kV	10kV	10kV	9kV	9kV
Voltage output @ 1,000ohms	4kV	4kV	6.5kV	6.5kV	8.5kV	8.5kV
APT technology included	No	Yes	Yes	Yes	Yes	Yes
Main power adaptor 12VDC	Included	Included	Included	Included	Included	Included
Battery AGM 12VDC sold separately (recommend)	2.2Ah = 30 hours	7Ah = 108 hours	7Ah = 54 hours	7Ah = 42 hours	28Ah = 96 hours recommend 100Ah	50Ah = 96 hours recommend 100Ah
Remote LCD display energizer programmer	No	Optional	Optional	Optional	Optional	Optional
Keyring on/off tag	No	No	No	No	Yes	Yes
Day/night sensor	No	Yes	Yes	Yes	Yes	Yes
Mounting options	Wall, fence wire, wood post	Wall, fence wire, wood post	Wall, fence wire, wood post	Wall, fence wire, wood post	Wall, fence wire, wood post, Steel Post	Wall, fence wire, wood post, Steel Post
Internal lightning protection	Yes	Yes	Yes	Yes	Yes	Yes

	SOLAR INTERNAL BATTERY				SOLAR EXTERNAL BATTERY		MAINS WITH BATTERY BACK-UP OR SOLAR
MODEL	Agri 1 Solar	Agri 3 Solar	Agri 5 Solar	Agri 8 Solar	Agri 25 Solar	Agri 50 Solar	Druid 114
Product code	FEN00501	FEN00503	FEN00505	FEN00508	FEN00525	FEN00550	FEN00490
Powers maximum fence length (optimal fence conditions)	1km/1.6 acres/0.64ha	3km/ 5 acres/2ha	5km/ 7 acres/2.8ha	8km/ 12.8 acres/5.4ha	25km/ 40 acres/16ha	50km/ 80 acres/32ha	130km/ 200 acres/82ha
Stored energy (Joules)	0.12J	0.33J	0.55J	0.82J	3.1J	6.5J	21J
Maximum output energy (Joules)	0.1J	0.26J	0.47J	0.68J	2.3J	4.6J	13.8J
Voltage output circuit	7.1kV	10kV	12kV	12kV	9kV	9kV	9kV
Voltage output @ 1,000ohms	3.7kV	5kV	6kV	6.4kV	8.5kV	8.5kV	8.5kV
APT technology included	No	No	No	No	Yes	Yes	Yes
Solar panel size	5 watt	5 watt	10 watt	10 watt	20 watt	40 watt	Can also be solar powered
Battery	LiFe internal	LiFe internal	LiFe internal	LiFe internal	100Ah (Not included)	100Ah	Includes a 7Ah battery
Remote LCD display energizer programmer	No	No	No	No	Optional	Optional	Keypad optional
Keyring on/off tag	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Day/night sensor	Yes	Yes	Yes	Yes	Yes	Yes	No
Mounting options	Steel Post	Steel Post	Steel Post	Steel Post	Steel Post	Steel Post	Wall or cabinet type
Internal lightning protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes

AGRI ENERGIZERS

Electric Fence Energizer Range

For more information on Strainrite and to view instructional videos of our products visit...

www.strainrite.co.nz

Strainrite ®
FENCING SYSTEMS