



STRADBALLY FARM SERVICES LTD.



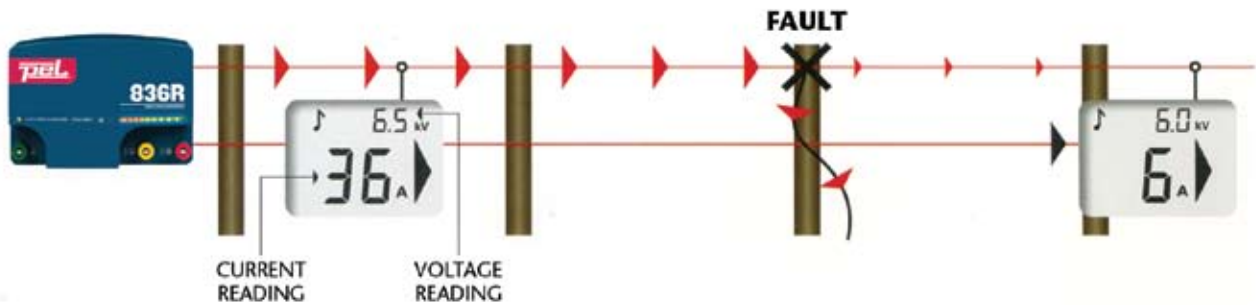
ELECTRIC FENCERS

Choosing a Fencer made Easy

FAULT FINDING EXPLAINED

HOW TO USE:

Start near the energizer's lead-out wires with your PEL Remote with Fault Finder or your PEL Fault Finder. Move down the fence line following the arrow away from the energizer. Take readings at regular intervals and at any junction point.



The previous current reading is shown briefly in the top right corner of the screen so that you can compare readings. If the current reading suddenly falls, you have gone past a fault. Retrace your steps to find the fault. Note that after a few seconds the previous current reading will be replaced with the present voltage reading (kV).

PEL 3 in 1 Control

Remote Control/Fault Finder/Volt Meter



Tests fencer and fence line.

Touch fence line here to turn fencer on/off.

- Quickly and easily locates faults along the fence line.
- Turns compatible PEL energisers on or off from anywhere along the fence line.
- Faultfinder arrow points direction of fault.
- Digital voltmeter voltage reading on wire up to 9900 volts.
- Rugged impact resistant case.
- Needs 9v square battery.
- Automatic energiser polarity detection.
- 1 year warranty.

To get the maximum performance from an energiser you need to be able to measure and monitor your fence system effectively.





PE836R

- 54 stored joules.
- **36 output joules (maximum).**
- Fence up to 500 acres.
- Power 210 miles/336 km of wire.
- High and low output terminals.
- Needs 10 x 5ft earth bars.
- For professional use only.
- **Remote control capable** (sold separately).
- 2 years warranty.

PE820R

- 34 stored joules.
- **22 output joules (maximum).**
- Fence up to 275 acres.
- Power 160 miles/256 km of wire.
- High and low output terminals.
- Needs 8 x 5ft earth bars.
- For professional use only.
- **Remote control capable** (sold separately).
- 2 years warranty.



PE 415i

- 20 stored joules.
- **15 output joules (maximum).**
- Fence up to 225 acres.
- Power 90 miles/150 km of wire.
- High and low output terminals.
- Needs 6 x 5ft earth bars.
- EU A12 compliant.
- **Remote control capable** (sold separately).
- LCD Voltage display.
- 2 years warranty.

PE 412i

- 16 stored joules.
- **12 output joules (maximum).**
- Fence up to 180 acres.
- Power 75 miles/120 km of wire.
- Needs 6 x 5ft earth bars.
- **Remote control capable** (sold separately).
- LCD Voltage display.
- High and low output terminal.
- 2 years warranty.



100 Ohms is the resistance caused by heavy vegetation growth on the fence wire.

Model	Stored Joules	Output Joules	No Load	500 OHMs	100 OHMs	50 OHMs
PE836R	54	36	9500	8500	6800	6200
PE820R	34	22	9500	8400	6000	4100
PE415i	20	15	9800	7500	5100	3700
PE412i	16	12	9100	7700	5100	3300



PE406/406i

- 9 stored joules.
- 6 output joules.
- Fence up to 90 acres.
- Power 36 miles/60km of high tensile wire.
- Needs 4 x 5ft earth bars.
- EU A11 and A12 compliant.
- **Remote control capable** (sold separately - PE406i only)
- Low and high terminal.
- 2 years warranty.

Works on mains and or 12v battery (both leads included).

PE403

- 5.2 stored joules.
- 3 output joules.
- Fence up to 45 acres.
- Power 18 miles/30km of high tensile wire.
- Needs 2 x 5ft earth bars.
- EU A11 and A12 compliant.
- Works on mains and or 12v battery (both leads included).
- 2 years warranty.



PE402

- 3.5 stored joules.
- 2 output joules.
- Fence up to 30 acres.
- Power 12 miles/20 km of wire.
- Needs 1 x 5ft earth bar.
- EU A11 and A12 compliant.
- Works on mains and or 12v battery (both leads included).
- 2 years warranty.

PE401

- 2 stored joule.
- 1 output joule.
- Fence up to 15 acres.
- Power 6 miles/10km of wire.
- Needs 1 x 5ft earth bar.
- Works on mains and or 12v battery (both leads included).
- 2 years warranty.



100 Ohms is the resistance caused by heavy vegetation growth on the fence wire.

Model	Stored Joules	Output Joules	No Load	500 OHMs	100 OHMs	50 OHMs
PE406/406i	9	6	9500	6700	3100	1600
PE403	5.2	3	11300	6200	2300	1200
PE402	3.5	2	11000	5900	2100	1000
PE401	2	1	9850	5300	1900	900

CYCLIC WAVE TECHNOLOGY

Provides a cleaner, more powerful pulse, maximising the energy that travels down the fence for optimal stock control.

BI-POLAR COMPATIBILITY

Enables the user to power a fence system to perform exceptionally well in dry, low conductive soil.

UNDERSTANDING OUTPUT AND STORED JOULES

- Stored joules is the actual joules (horsepower) of energy in the fencer.
- Output joules is the amount of joules (horsepower) available to drive volts along the fence wire.
- Output joules is two thirds of the stored joules and is calculated by dividing stored joules by 3 and multiplying by 2.

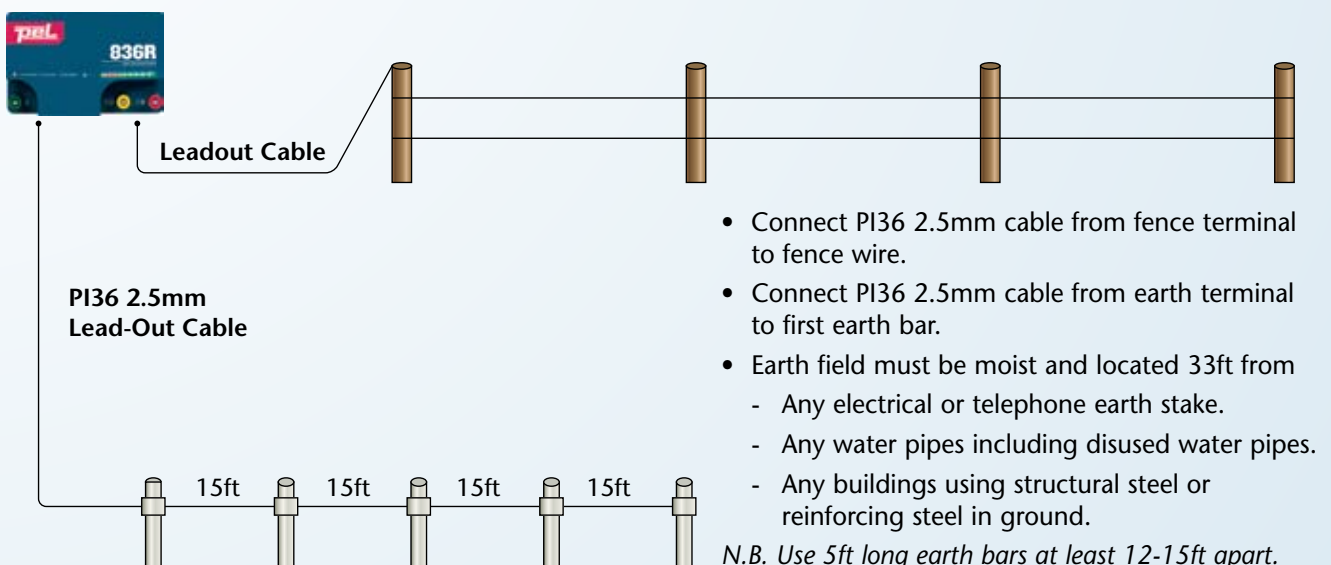
UNDERSTANDING OUTPUT JOULE TECHNOLOGY

The use of low impedance output joule technology ensures that maximum joules is available to drive voltage along the fence wire. When vegetation growth increases on the fence wire or a fault occurs, the output joules in the fencer will rise to meet the extra demand for power. The joules will stay rising until the maximum output joule rating of the fencer is reached.

Heavy vegetation growth on a fence wire is normal, therefore, all our fencers are produced to ensure there is adequate voltage on the fence wire to control livestock under heavy vegetation growth conditions.



ERECTING AND EARTHING YOUR FENCER



PE5

- .05 stored joules.
- **.03 output joules.**
- Power 1 x 50m net or 1000m of tape or polywire.
- Takes 2 x D cell torch batteries.
- Hangs on fence wire with unique clip.
- Up to 10 weeks life using long life batteries.
- 2 years warranty.



PE102BV 9/12 Volt Battery Fencer

- .22 stored joules.
- **.17 output joules.**
- Power 1.2 miles/2 km of wire.
- Pulse light indicator.
- Battery indicator displays battery condition when unit is first turned on.
- Battery Saver - Microprocessor technology automatically adjusts pulse rate according to the battery condition, extending battery life.
- Weather and UV resistant case.
- 2 years warranty.

PE102B 9/12 Volt Battery Fencer

- .22 stored joules.
- **.17 output joules.**
- Power 1.2 miles/2 km of wire.
- On/off rotary switch.
- Pulse light indicator.
- Sealed circuit board prevents water/insect ingress.
- 2 years warranty.



PE103B 9/12 Volt Battery Fencer

- .29 stored joules.
- **.23 output joules.**
- Power 2 miles/3.2 km of wire.
- 6 position rotary switch.
- Day/night sensor.
- 3 stage light bar shows voltage and battery condition.
- Sealed circuit board prevents water/insect ingress.
- 2 years warranty.

PE104B 9/12 Volt Battery Fencer

- .43 stored joules.
- **.31 output joules.**
- Power 3 miles/4.5 km of wire.
- 6 Position rotary switch.
- Day/night sensor.
- 3 Stage light bar shows voltage and battery condition.
- Sealed circuit board prevents water/insect ingress.
- 2 years warranty.



Model	Stored Joules	Output Joules	No Load	1000 OHMs	500 OHMs (Heavy Load)
PE5	.05	.03	6700	1800	1000
PE102BV	.22	.17	8400	3900	2600
PE102B	.22	.17	8400	3900	2600
PE103B	.29	.23	8700	4200	2800
PE104B	.43	.31	8700	4400	2900

PE702S



- .2 stored joules.
- **.16 output joules.**
- 1.5-2 km of polytape/polywire.
- Requires minimal sunlight.
- 2 year warranty.

PE705S



- .63 stored joules.
- **.5 output joules.**
- Power 6-8 km of tape or polywire.
- Requires minimal sunlight.
- 2 year warranty.

NOTE: Area recommendations are a guide only and in multiple wire terms. Performance will be affected by the condition of your fence.



PE710 Stand

COMMON FEATURES

- High output joule low impedance fencer.
- Up to 21 days operation without sunlight.
- Large Integrated 4.2 watt solar panel.
- Sealed circuit board design for weather protection.
- Energy recycling circuit improves battery performance by up to 25%.
- Rechargeable internal battery.
- Pulse light display.
- Unique mounting system with carry handle for portability.
- Weather and UV resistant, easy to carry case.

Model	Stored Joules	Output Joules	No Load	1000 OHMs	500 OHMs (Heavy Load)
PE705S	.63	0.5	9900	6200	4700
PE702S	0.2	0.16	9500	4250	2400

PEL INTEGRATED SOLAR FENCERS

Incorporates solar panel, fencer and rechargeable battery in one easy to carry case.



PE406S

- 9 stored joules.
- **6 output joules.**
- 12 volt 45 watt solar panel
- Fence up to 90 acres.
- Power 30 miles/50km of high tensile wire.
- Needs 4 x 5ft earth bars.
- Tractor battery 12v 120 a/h (not supplied).

PE403S

- 5.2 stored joules.
- **3 output joules.**
- 12 volt 25 watt solar panel.
- Fence up to 45 acres
- Power 16 miles/30 km of high tensile wire.
- Needs 2 x 5ft earth bars.
- Tractor battery 12v 105-110 a/h (not supplied).



PE402S

- 3.5 stored joules.
- **2 output joules.**
- 12 volt 15 watt solar panel.
- Fence up to 30 acres.
- Power 12 miles/20 km of high tensile wire.
- Needs 1 x 5ft earth bar.
- Tractor battery 12v 85-105 a/h (not supplied).

PE401S

- 2 stored joules.
- **1 output joule.**
- 12 volt 15 watt solar panel.
- Fence up to 15 acres.
- Power 6 miles/11 km of high tensile wire.
- Needs 1 x 5ft earth bar.
- Tractor battery 12v 85-105 a/h (not supplied).



100 Ohms is the resistance caused by heavy vegetation growth on the fence wire.

Model	Stored Joules	Output Joules	No Load	500 OHMs	100 OHMs	50 OHMs
PE406S	9	6	9500	6800	3100	1600
PE403S	5.2	3	11300	6200	2300	1200
PE402S	3.5	2	11000	5900	2100	1000
PE401S	2	1	9850	5300	1900	900



EPM 500

- 7.5 stored joules.
- **5 output joules.**
- Fence up to 75 acres
- Power 30 miles/50 km of high tensile wire.
- High and low output terminals.
- Needs 3 x 5ft earth bars.
- EU A11 and A12 compliant.
- 3 years warranty.

EPM 350

- 5 stored joules.
- **3.5 output joules.**
- Fence up to 50 acres
- Power 21 miles/33 km of high tensile wire.
- High and low output terminals.
- Needs 2 x 5ft earth bars.
- EU A11 and A12 compliant.
- 3 years warranty.



EPM 250

- 4.2 stored joules.
- **2.5 output joules.**
- Fence up to 30 acres
- Powers 15 miles/24 km of high tensile wire.
- High and low output terminals.
- Needs 1 x 5ft earth bar.
- EU A11 and A12 compliant.
- 3 years warranty.

EPM 100

- 1.5 stored joules.
- **1 output joule.**
- Fence up to 15 acres
- Power 6 miles/10 km of high tensile wire.
- High output terminal.
- Needs 1 x 5ft earth bar.
- 3 years warranty.



100 Ohms is the resistance caused by heavy vegetation growth on the fence wire.

Model	Stored Joules	Output Joules	No Load	500 OHms	100 Ohms	50 Ohms
EPM500	7	5	11200	8200	4500	2700
EPM350	5	3.5	11000	7100	4300	2600
EPM250	4.2	2.5	10500	6700	4000	2400
EPM100	1.5	1	8600	4300	1600	

EPB 15

9/12 Volt Stripgrazers



- .25 stored joules.
- **.18 output joules.**
- Power 1.5-2 km of wire.
- 3 leg adjustable stand and earth.
- 5 point rotary switch for battery save and power control.

EPB 30

9/12 Volt Stripgrazers



- .47 stored joules.
- **.3 output joules.**
- Power 4.5 km of wire.
- 3 leg adjustable stand and earth.
- 5 point rotary switch for battery save and power control.



EPB 120

12 Volt Wet Cell Battery Fencer

- 1.8 stored joules.
- **1.2 output joules.**
- Fence up to 15 acres
- Power 6 miles/10 km of wire.
- Needs 1 x 5ft earth bars.

100 Ohms is the resistance caused by heavy vegetation growth on the fence wire.

Model	Stored Joules	Output Joules	No Load	1000 OHMs	500 OHMs	100 OHMs
EPB15	.25	.15	9500	4000	2500	-
EPB30	.47	.3	9700	4500	3000	-
EPB120	1.8	1.2	10000	6500	4400	1700

WHY USE OUTPUT JOULE TECHNOLOGY

Our retention of hedges, moist climate and long growing season means there is more demand for voltage on boundary fence wire than even before. We know the resistance caused by vegetation growth on the fence wire and we know the minimum voltage required to control livestock. Therefore by using low impedance output joule technology we can ensure livestock control under vegetation growth conditions. If you have adequate voltage on the wire to control livestock under vegetation growth, then you have adequate power to control livestock at all times.

UNDERSTANDING PERMANENT FENCING

SOLAR POWERED FENCING EXPLAINED

Solar Powered Fencing is a low cost, efficient and effective way of controlling livestock in areas where mains power is not available. They are designed to work in our climatic conditions and give adequate voltage on the fence wire to control livestock under vegetation growth conditions ie 100 Ohms resistance.

The PE702S .16 output joule and the PE705S .5 output joule integrated solar fencers i.e. fencer, battery and solar panel in one easy to carry cabinet, are the ideal strip grazing units and can power from 1.5 to 6 km of polytape or polywire.

Pel's policy as "Leaders in the Field" has led to the introduction of the Pel Unigizer range which means they can be powered by mains or 12 volt supply. This means that by using any of the Pel 1-6 output joule fencers and suitable solar panel we can now fence from 15 to 90 acres using 2.5mm galvanised permanent fence wire.

All Pel Solar Powered Fencers are designed so that the solar panel only charges the battery in daylight hours. The solar panel design ensures that there is no power drawback from the battery to the panel in darkness. This ensures that the fencer always has a fully charged battery to draw power from.

By using a Pel Solar Powered Fencer farmers can permanently fence outfarms without having to worry about the battery running down or having to recharge or replace batteries. They can manage paddocks more efficiently, improve pasture management, increase profits and achieve peace of mind. To date we have many thousands of units working satisfactorily in Ireland and the UK.

ADVANTAGES OF SOLAR POWERED FENCERS

- Removes cost of replacement batteries.
- Battery charged during daylight hours.
- Removes problem of recharging batteries.
- Continuous charge prolongs battery life.
- Is reliable and cost effective.
- Is environmentally friendly.

PEL PERMANENT FENCING

Good Fences Make Good Neighbours.

All Pel and Electro Power Fencers are designed and manufactured to the highest standard.

Just as higher water pressure in a pipe leads to more water leakage, high voltage on a fence wire leads to greater power loss through small or poor quality insulators. All electric current wants to get back to source. Therefore power on the fence wire wants to get back to the fencer via the earth field. Remember 10 volts lost through 100 insulators amounts to 1000 volts lost off the fence wire.

All Pel insulators and accessories are manufactured from hi-density polyethylene and are guaranteed for ten years. They are designed and manufactured with enough bulk to ensure there is no loss of power through the staple or nail through arcing or product becoming porous and absorbing moisture through product failure. They are designed to ensure voltage is kept on the fence wire and not lost through weak spots.

By choosing the correct Pel fencer and Pel accessories farmers can be assured of years of trouble free livestock control, increased profits and peace of mind.

PERMANENT FENCING EXPLAINED

FENCING TERMS EXPLAINED:

- Voltage: Power on the wire that controls the livestock.
Joules: The horsepower of each fencer that drives volts along the wire.
Stored Joules: The horsepower in the fencer.
Output Joules: The real horsepower of the fencer: Approx two thirds stored joules.
EG. 15 stored joules = 10 output joules.

TESTING YOUR FENCER:

- No Load: Voltage in the fencer.
500 OHMS: Voltage on wire under perfect conditions.
100 OHMS: Voltage on wire under grass growth condition.

Note: Voltage on fence wire should not drop below 2000 volts for effective livestock control.

CHOOSING A FENCER:

- 1 output joule will drive volts along 6 miles/10 km of wire in perfect condition.
- Decide on area and type of land to be fenced.
- The type of stock to be controlled.
- Choose a fencer larger than required to allow for fence additions.

ERECTING YOUR FENCER:

- Erect fencer in a cool, dry, well ventilated shed.
- Erect fencer out of reach of children or animals.
- Connect Pel PI36 underground / lead out wire from fencer terminal to fence wire.
- Connect Pel PI36 underground / lead out wire from earth terminal to first earth rod.

EARTHING YOUR FENCER:

- Choose an earth site that is moist and at least 33ft, (10 meters) away from:
 - Any earth stake for another electrical system
 - Any telephone earth stake.
 - Any water pipes including disused water pipes.
 - Any building using structural steel or reinforcing metal in the ground.

N.B. Never choose an earth site near a dairy or milking parlour.

DISTRIBUTOR/DEALER

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