Energizer Selection

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Types of Energizers

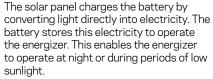
110V. Plug-in Energizers are the best choice if you have access to a power outlet. The Energizers are reliable in every situation with exception of a power outage and will provide you with the most power for the least about of money. You will need to install them inside a structure where they are protected from moisture.



Battery Energizers are typically portable and great for remote areas far from power outlets especially in cases where they are periodically moved. These are powered by a 12v rechargeable battery, "D" cell batteries or a 9 volt disposable dry cell battery.



Solar Energizers are portable and an excellent choice for temporary fence applications. They are a logical choice for remote areas where there is no 110V outlets. While they have the highest upfront cost per joule, the power to operate them is free as long as they have adequate sunlight.





Multi Powered Energizers combined with various adaptors will allow you to power your Energizer using any one of the methods listed above: 110V Outlet, Battery or Solar. This is a great choice if you move your fence to locations where 110v power will exist and other locations where it is not available.



		STORED	'UP TO' DISTANCE CLEAN FENCE (MILES/ACRES)	RECOMMENDED DISTANCE TYPICAL FENCE (MILES/ACRES)	I SERIES OPTION	LIVESTOCK CONTROLLED
<u> </u>	M10000i	100.0	1,000/6,000	125/3,000	•	在原在上来公司部門在中国中国
	M5800i	58.0	430/2,700	87 / 2,200	•	在原在工作公司 医中间
	M1500	15.0	160/900	40/360		在原在工事分配在
	M1100	11.0	110/650	36/280		在原在工事分配在新工事工事工作
	M800	8.0	90/520	30/200		在原在工事公司部門 医中肾管
110 VOLT	M560	5.6	75 / 400	23/130		在原在上来公司部 医中肾管炎
110	M360	3.6	55 /250	19/95		河流会对中东会大省
	M160	1.6	30/100	11/60		河流会对中东会大省 为
	M120	1.2	15/60	6/30		河流会对对金金大省为
	M60	0.6	10/40	3/20		THIM A SECOND TO THE SECOND TO
	M30	0.3	5/20	2/10		THIM A SECOND
	M10	0.1	2/10	0.5/3		河流海东 条下
MULTI-POWER	MBS2800i	28.0	250/1,500	50/1,000	•	在原在工事分配在中国中国
	MBS1800i	18.0	200/1,200	42/420	•	五天五十八年四十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二
	MB1000	10.0	100/600	34/250		五天五十八年四十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二
	MBS800	8.0	90/520	30/200		五天五十八年四十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二
	MBS400	4.0	60/280	20/120		Time To The Aria Ar
	MBS200	2.0	45/160	14/90		Timerreserving
	MB150	1.5	30/100	11/60		THATTERNAM
BATTERY	B60	0.6	15/60	5/40		TAMATALAKAM
	B11	0.11	4/20	0.6 / 6		門別有名亦代
	B10	0.1	4/20	0.6 / 6		用加州东 州
-AR	S400	4.0	60/280	20/120		阿尔西班东州内州
	S200	2.0	45/160	14/90		河流海河东州 河流
SOI	S100	1.0	30/100	8/60		阿尔西斯金米 瓦洛州
NO NO	S40	0.4	25/80	5/30		不可以外外的
ALL IN ONE SOLAR	S20	0.20	12/40	2/14		河流海东州
	S16	0.16	10/30	1/10		河流海东州
	S10	0.1	3/15	0.5 / 5		阿尔纳金州

Gallagher Recommends - comparing on stored joules only, since these distance/acreage ratings are always manufacturers estimates because two properties of the same acreage/fence distance may have dramatically different conditions e.g.: number of wires, vegetation growth, stocking intensity.

Powering Your Fence

i Series Fence System

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i Series Fence System

i Series Fence Energizer Systems

The **i Series Energizers** have extremely reliable power that adapts output up or down depending on your fence conditions. Each one also comes with a separate controller that can be mounted outdoors for easy fence performance checks.

ENERGIZER

Reliable and adaptive performance even in extreme conditions

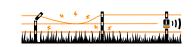




On i Series models you can also add monitors around the fence line that feed information back to the Controller and tell you if all is well or if there is a fault in their area.

The Remote & Fault Finder helps pinpoint any faults quickly, saving hours hunting for and fixing the issue.

How the System Works:



 Fence Monitor(s) recognize any significant drop in fence zone or Energizer performance and raise alarms.





Alerts are sent to the Energizer Controller and/or optional Alarm System.





The Controller and Remote indicate which zone is in fault. The Remote is used to find the fault within the zone.



4 Power to the fence at the fault location is turned off using the Remote, allowing a safe and convenient repair.



5 Once the fault is repaired, power is restored to the fence and tested using the Remote.

ENERGIZER CONTROLLER

Easily monitor and control fence performance



FENCE MONITOR

Create fence zones and monitor fence performance around your property



ENERGIZER REMOTE & FAULT FINDER ALARM

Quickly locate and repair faults





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Grounding Systems

Grounding

The ground must be as conductive as possible for the fence to give the animal an effective shock. A simple guide is one ground rod for every five joules of stored energy with a minimum of three ground rods.

Follow the recommendation in the chart to get the maximum benefit. When in doubt, add more ground rods. The number of ground rods will vary depending on the power of the energizer and the soil type. High powered energizers need more ground rods than low powered energizers. Dry, sandy, rocky or frozen soil will require more ground rods than wet soils.

Energizer Size	Required Ground Rods
Up to 15 Joules	3 Rods minimum
Up to 28 Joules	6 Rods minimum
Up to 58 Joules	12 Rods minimum

Handy Hint

The rule for ground rods when installing permanent fencing

10' Between ground rods

- 6' Minimum length of rods
- 3 Ground rods minimum
- 1 Wire connecting all rods to Energizer ground terminal

As a rule of thumb, use at least 3 ground rods or the Energizer Stored Joules rating divided by $5.\,$

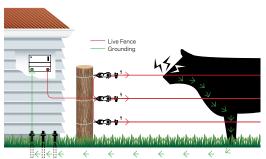
Why does the Energizer need a ground system?

The ground is half the circuit of your fencing system. Electrons travel from the energizer, along the fence wires and back through the ground to the Energizer to complete the circuit. Like a radio antenna collects sound waves, the ground system collects the electrons. The ground must be as conductive as possible for the fence to give the animal an effective shock.

Main causes of a poor ground system are:

- Rusty or corroded ground rods
- Broken ground wire connecting the rods
- Not enough around rods
- Ground rods too close together or too short
- Poor connections at the rod or in the connecting wire

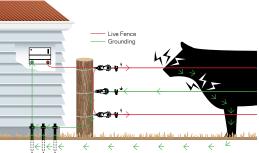
Additionally you will need to setup your electric fence according to how 'green' the area is all year round.



All Live Wire System

- best suited for wetter regions

For use in greener regions with good ground conductivity. All fence wires connect to the red terminal on the Energizer and a shock is delivered to an animal when it's touching the ground and the fence at the same time.



Ground Return Wire System

- best suited for drier regions

For use where the ground struggles to conduct enough power (for year-round dry, frozen or snow conditions). The live & ground wires on the fence create the shock when the animal touches them both at the same time.

Don't	Do		
Allow bare wires to touch an iron clad building - use double insulated cable	Keep energizer ground system 33-40' away from other electrical ground connections		
Do not use rebar for ground rods	Keep energizer ground system 33-40' away from any metal pipes carrying water		
Do not use copper lead-out wire or copper ground rods.	Use galvanized ground rods. Rusty or corroded ground rods will not be effective		
Place near fertilizer, animal urine and manure (corrosion)	Locate rods where soil tends to stay moist, north sides of buildings, low spots		
Place your ground rods where they are likely to be hit by equipment	Use high conductive cable for connecting the Energizer to the ground system and fence		
	When constructing ground return wire fences, re-ground negative wires with a ground rod every 1,200'		