

Electrical shock energizer device consolidated data

Many manufacturers of shock energisers **DO** publish

- a) **voltage** (Max)(no load voltage)
- b) **Joules** (actual energy deliverable, not initial stored energy)
- c) **Fence** length over which the energiser would (in ideal conditions) be effective
- d) **Suggested species** for the energisers to be used with

The manufacturers **DO NOT** tend to publish

- d) **Pulse duration**
- e) **Watts output**
- f) **Amps output**

i) Fixed and moveable electric fencing

Cattle fencing

Anonymous code	Joules	Volt	Fence length equivalent (km)(no vegetation contact, good wire conductor)
C1	4.7	11300	25
C2	7	10000	45
C3	11	11200	70
C4	18.5	11500	90
C5	3.2	9600	24
C6	7.6	10000	40
C7	5	9700	28
C8	7.6	10000	43
C9	2	9000	15
C10	0.4	10200	4
C11	0.37	10200	4
C12	2.6	10000	19
C13	4	11500	29
C14	6	11500	38
C15	1.5	10000	8
C16	4.5	10300	28
C17	7	10800	35
C18	0.4	10500	4.4
C19	3.5	9750	26
C20	5	11200	23
C21	7.5	11000	40

C22	10	10500	70
C23	11	11000	80
C24	13	10000	90
C25	15	10500	100
C26	20	10500	120
C27	0.08	9200	1.5
C28	0.07	7000	1
C29	0.13	6900	1.5
C30	0.16	6900	3
C31	0.29	7800	5
C32	0.74	9000	10
C33	1.6	9600	20
C34	3	9800	30
C35	0.12	9600	2
C36	0.19	9600	4
C37	0.27	9600	6
C38	0.30	9600	10
C39	0.40	8000	6
C40	0.55	10000	10
C41	1.1	9000	20
C42	2	10000	30
C43	0.6	7700	9
C44	2.7	8700	28
C45	3.9	9200	35
C46	4.5	9200	40
C47	6.1	7700	42
C48	7.7	7700	55
C49	1.5	9000	20
C50	3	9100	30
C51	4.7	9200	40
C52	1.2	8500	16
C53	2	9100	25
C54	10	7000	65
C55	14	7000	80
C56	15	9000	100
C57	0.33	9500	0.8
C58	0.84	7800	1
C59	0.35	10000	2.2
C60	0.18	9500	1.5
C61	0.57	12000	6
C62	1.4	11500	18
C63	2.24	11500	25
C64	0.33	10000	5
C65	0.14	9200	1.5
C66	4.9	9300	50
C67	16	9200	65
C68	25	9500	85
C69	3.6	9800	30
C70	4.2	9500	25
C71	2.4	9700	20
C72	1.4	9000	20
C73	0.45	7500	8
C74	0.2	8500	1

C75	0.6	10000	10
C76	1.2	10000	20
C77	0.2	8500	2.5
C78	0.6	10000	10
C79	1.2	10000	20
C80	4.8	16800	130
C81	8	12000	180
C82	3	11800	80
C83	3	14700	100
C84	14.3	12000	85
C85	3	11000	80
C86	1	11000	40
C87	2	11200	50
C88	1.2	8600	12
C89	0.8	8400	8
C90	4.9	14500	130
C91	2	14000	50
C92	2	14000	15
C93	0.3	10000	9.5
C94	0.37	13000	10
C95	1	9000	40
C96	4.8	14000	130
C97	0.45	7900	8
C98	5	9500	120
C99	2.7	9000	60
C100	4.2	9300	120
C101	0.45	8000	15
C102	5.2	9000	
C103	1.2	9000	
C104	0.09	5000	
C105	2.5	9300	70
C106	4.5	10000	120
C107	6.5	10000	180
C108	10	10200	300
C109	14.5	10200	350
C110	7.5	9850	235
C111	10	10000	300
C112	15	10000	350
C113	0.34	9100	23
C114	0.71	8500	86
C115	1.36	8500	86
C116	0.43	9100	23
C117	0.86	8500	35
C118	1.86	5500	60
C119	1.4	9000	60
C120	3.7	9000	160
C121	6	9200	220
C122	9.3	9500	310
C123	14	11700	475

Summary cattle fence energiser data

	Joules (J)	Voltage (V) (max)	Watt (W) (assuming pulse duration 0.0003 s)	Km (high conductivity fence, ideal)
Averages	4.23	9779	14114	25
Maximum	25.00	16800	83333	475.0
Minimum	0.07	5000	233	0.8

Sheep fencing

Anonymous code	Joules	Volt	Fence length equivalent (km)(no vegetation contact, good wire conductor)
S1	4.7	11300	25
S2	7	10000	45
S3	11	11200	70
S4	18.5	11500	90
S5	3.2	9600	24
S6	7.6	10000	40
S7	5	9700	28
S8	7.6	10000	43
S9	2	9000	15
S10	4	11500	29
S11	6	11500	38
S12	1.5	10000	8
S13	4.5	10300	28
S14	7	10800	35
S15	0.4	10500	4.4
S16	3.5	9750	26
S17	5	11200	23
S18	7.5	11000	40
S19	10	10500	70
S20	11	11000	80
S21	13	10000	90
S22	15	10500	100
S23	20	10500	120
S24	0.07	7000	1
S25	0.13	6900	1.5
S26	0.16	6900	3
S27	0.29	7800	5
S28	0.74	9000	10
S29	1.6	9600	20

S30	3	9800	30
S31	0.12	9600	2
S32	0.19	9600	4
S33	0.27	9600	6
S34	0.30	9600	10
S35	0.40	8000	6
S36	0.55	10000	10
S37	1.1	9000	20
S38	2	10000	30
S39	0.6	7700	9
S40	2.7	8700	28
S41	3.9	9200	35
S42	4.5	9200	40
S43	6.1	7700	42
S44	7.7	7700	55
S45	1.5	9000	20
S46	3	9100	30
S47	4.7	9200	40
S48	1.2	8500	16
S49	2	9100	25
S50	10	7000	65
S51	14	7000	80
S52	15	9000	100
S53	1.2	10000	20
S54	1.2	10000	20
S55	4.8	16800	130
S56	8	12000	180
S57	3	11800	80
S58	3	14700	100
S59	14.3	12000	85
S60	3	11000	80
S61	1	11000	40
S62	2	11200	50
S63	1.2	8600	12
S64	0.8	8400	8
S65	4.9	14500	130
S66	2	14000	50
S67	2	14000	15
S68	0.37	13000	10
S69	1	9000	40
S70	4.8	14000	130
S71	0.45	7900	8
S72	5	9500	120
S73	2.7	9000	60
S74	4.2	9300	120
S75	2.5	9300	70
S76	4.5	10000	120
S77	6.5	10000	180
S78	10	10200	300
S79	7.5	9850	235
S80	10	10000	300
S81	15	10000	350
S82	1.4	9000	60

S83	3.7	9000	160
S84	6	9200	220
S85	9.3	9500	310

Summary sheep fence energizer data

	Joules (J)	Voltage (V) (max)	Watt (W) (assuming pulse duration 0.0003 s)	Km (high conductivity fence, ideal)
Averages	4.83	9995.29	16083.92	65.98
Maximum	20.00	16800.00	66666.67	350.00
Minimum	0.07	6900.00	233.33	1.00

Goat fencing

Anonymous code	Joules	Volt	Fence length equivalent (km)(no vegetation contact, good wire conductor)
G1	4.7	11300	25
G2	7	10000	45
G3	11	11200	70
G4	18.5	11500	90
G5	3.2	9600	24
G6	7.6	10000	40
G7	5	9700	28
G8	7.6	10000	43
G9	2	9000	15
G10	0.4	10200	4
G11	4	11500	29
G12	6	11500	38
G13	7	10800	35
G14	0.4	10500	4.4
G15	3.5	9750	26
G16	5	11200	23
G17	7.5	11000	40
G18	10	10500	70
G19	11	11000	80
G20	13	10000	90
G21	15	10500	100
G22	20	10500	120
G23	0.08	9200	1.5
G24	0.07	7000	1
G25	0.13	6900	1.5

G26	0.16	6900	3
G27	0.29	7800	5
G28	0.74	9000	10
G29	1.6	9600	20
G30	3	9800	30
G31	0.12	9600	2
G32	0.19	9600	4
G33	0.27	9600	6
G34	0.30	9600	10
G35	0.40	8000	6
G36	0.55	10000	10
G37	1.1	9000	20
G38	2	10000	30
G39	0.6	7700	9
G40	2.7	8700	28
G41	3.9	9200	35
G42	4.5	9200	40
G43	6.1	7700	42
G44	7.7	7700	55
G45	1.5	9000	20
G46	3	9100	30
G47	4.7	9200	40
G48	1.2	8500	16
G49	2	9100	25
G50	10	7000	65
G51	14	7000	80
G52	0.33	9500	0.8
G53	0.84	7800	1
G54	0.35	10000	2.2
G55	0.18	9500	1.5
G56	0.57	12000	6
G57	1.4	11500	18
G58	2.24	11500	25
G59	0.33	10000	5
G60	1.2	10000	20
G61	1.2	10000	20
G62	4.8	16800	130
G63	8	12000	180
G64	3	11800	80
G65	3	14700	100
G66	14.3	12000	85
G67	3	11000	80
G68	1	11000	40
G69	2	11200	50
G70	1.2	8600	12
G71	0.8	8400	8
G72	4.9	14500	130
G73	2	14000	50
G74	2	14000	15
G75	0.37	13000	10
G76	1	9000	40
G77	4.8	14000	130
G78	0.45	7900	8

G79	5	9500	120
G80	2.7	9000	60
G81	4.2	9300	120
G82	2.5	9300	70

Summary goat fence energizer data

	Joules (J)	Voltage (V) (max)	Watt (W) (assuming pulse duration 0.0003 s)	Km (high conductivity fence, ideal)
Averages	3.93	10058	13088	40
Maximum	20.00	16800	66667	180
Minimum	0.07	6900	233	0.80

Pig fencing

Anonymous code	Joules	Volt	Fence length equivalent (km)(no vegetation contact, good wire conductor)
P1	4.7	11300	25
P2	18.5	11500	90
P3	5	9700	28
P4	7.6	10000	43
P5	2	9000	15
P6	0.37	10200	4
P7	1.3	9500	10
P8	2.6	10000	19
P9	4	11500	29
P10	1.5	10000	8
P11	0.4	10500	4.4
P12	3.5	9750	26
P13	3	12000	15
P14	7.5	11000	40
P15	10	10500	70
P16	0.24	10000	3.5
P17	0.43	10800	5
P18	0.12	9600	2
P19	0.19	9600	4
P20	0.27	9600	6

P21	0.30	9600	10
P22	0.40	8000	6
P23	0.55	10000	10
P24	1.1	9000	20
P25	2	10000	30
P26	2.7	8700	28
P27	4.5	9200	40
P28	14	7000	80
P29	1.2	10000	20
P30	4.8	16800	130
P31	8	12000	180
P32	3	11800	80
P33	3	14700	100
P34	14.3	12000	85
P35	1	11000	40
P36	2	11200	50
P37	1.2	8600	12
P38	0.8	8400	8
P39	4.9	14500	130
P40	2	14000	15
P41	1	9000	40
P42	0.45	7900	8
P43	2.7	9000	60
P44	4.2	9300	120
P45	0.45	8000	15

Summary pig fence energizer data

	Joules (J)	Voltage (V) (max)	Watt (W) (assuming pulse duration 0.0003 s)	Km (high conductivity fence, ideal)
Averages	3.42	10350	11390	39
Maximum	18.50	16800	61667	180
Minimum	0.12	7000	400	2

Poultry fencing

Anonymous ID	Joules (J)	Voltage (V) (max)	Watt (W) (assuming pulse duration 0.0003 s)	Km (high conductivity fence, ideal)
Av1	0.8	9500	2667	7
Av2	2	9000	6667	15
Av3	3.2	9600	10667	24
Av4	5	9700	16667	28
Av5	0.4	10200	1333	4
Av6	0.37	10200	1233	4
Av7	1.3	9500	4333	10
Av8	2.6	10000	8667	19
Av9	1.5	10000	5000	8
Av10	0.4	10500	1333	4.4
Av11	3.5	9750	11667	26
Av12	3	12000	10000	15
Av14	0.24	10000	800	3.5
Av15	0.43	10800	1433	5
Av16	0.4	8000	1333	6
Av17	0.2	8500	667	1
Av19	3	11000	10000	80
Av20	1.2	8600	4000	12
Av21	0.8	8400	2667	8
Av24	0.37	13000	1233	10

Av26	0.45	7900	1500	8
Av27	5	9500	16667	120
Av28	2.7	9000	9000	60
Av29	4.2	9300	14000	120
Av30	0.45	8000	1500	15
Av31	2.5	9300	8333	70

Summary poultry fence energizer data

		Joules (J)	Voltage (V) (max)	Watt (W) (assuming pulse duration 0.0003 s)	Km (high conductivity fence, ideal)
Averages		1.77	9663	5899	26.27
Maximum		5.00	13000	16667	120.00
Minimum		0.20	7900	667	1.00

ii) Cattle trainers

Energizer data - Cow trainers

Anonymous code	Voltage / Joule
CT1	2500 or 1500 V
CT2	8000 V 0.02 J
CT3	5000 V 0.09 J
AVERAGES	4250 V 0.055 J

iii) Prods or goads

Energizer data - Goats/prods

Anonymous code	Voltage
UK	

P1	5000 V
P2	5000 V
P3	5000 V
P4	5000 V
P5	5000 V
P6	5000 V
P7	Wrong voltage provide on product website
P8	5600 V
P9	3800 V
P10	5000 V
P11	4000 V
EU	
P13	5000 V
P14	5000 V
P15	5000 V
	Average 4877 V

v) *Dairy collecting yard backing gates*

Energizer data - Backing / crowd gates

Anonymous code	Joule	Volt	Fence length equivalent
BG1	0.3	7500	3

vii) *Collars linked to virtual fencing and containment systems*

Energizer data - Virtual fences

Anonymous code	Joules	Volt	Comment
VF1	0.2	3000	Duration 1.0 Sec pulse 82dB @ 1m sound deterrent
VF2	?	?	
VF3	?	?	

