ENERGIZER SPECIFICATIONS

Nemtek Energizer Brand	Wizord		Merlin	Merlin Stealth ™				Stealth Master		Druid					
Model Number	**2i**	**4i**	**4i**	**M15S**	**M18S**	**M25S**	**M28S M28X**	**M25M**	**M28M**	**13 LCD**	**15 LCD**	**18 LCD**	**114 LCD**	**25 LCD**	**28 LCD**
Energizer Dimensions															
	L285 x W212 x D120			L370 x W232 x D145						L285 x W212 x D120		L370 x W232 x D145		L400 x W270 x D125	
High Voltage Outputs															
Typical energy output into 500 Ohms load (Joules)	2J	3.7J	3.7J	4.8J	7.6J	4.8J	7.6J	4.8J	7.6J	3J	4.6J	7.6J	13.8J (150 Ω)	2 x 2.4J	2 x 3.7J
Output voltage into an open circuit	7 400V	8 000V	8 000V	8 500V	9 300V	8 500V	9 300V	8 500V	9 300V	9 000V	9 000V	9 600V	9 000V	9 000V	9 000V
High or low voltage modes, alarm monitoring is enabled in both modes. Output voltage settings can be changed for both the high and the low voltage modes			Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Number of high voltage monitored zones	1	1	1	1	1	2	2	2	2	1	1	1	1	2	2
Number of earth loop monitored zones	1	1	1	1	1	2	2	2	2	1	1	1	1	2	2
Adaptive Power Technology (APT), reducing false alarms and arcing on the fence										Yes	Yes	Yes	Yes	Yes	Yes
Fence interference detection from foreign energizers		Yes	Yes							Yes	Yes	Yes	Yes	Yes	Yes
Energizer Controls and Displays															
Keypads for the remote control of the energizer	No	No	4 max 1 incl	4 max	4 max	4 max	4 max	4 max	4 max	2 max	2 max	2 max	2 max	2 max	2 max
Tag switch – to control the energizer without using a keypad	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Remote on/off input	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes	Yes
Displays the output and return voltages										Yes	Yes	Yes	Yes	Yes	Yes
Display type	LED	LED	LED	LED	LED	LED	LED	LED	LED	LCD	LCD	LCD	LCD	LCD	LCD
Gate and Panic Button Inputs															
Timed gate switch input, used to monitor open and closing of the gate	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes	Yes
Panic button input	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*	Yes	Yes
Alarm Outputs															
Siren output, time programmable	Fixed	Fixed	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Strobe light output to visually indicate an alarm condition	1	1	1	1	1	2	2	2	2	1	1	1	1	2	2
Power Supply and Battery Back-up Systems															
Mains supply voltage***	230V	230V	230V	230V	230V	230V	230V	230V	230V	230V	230V	230V	230V	230V	230V
Typical power consumption under normal operating conditions	17VA	18VA	16VA	27VA	27VA	27VA	27VA	27VA	27VA	18VA	18VA	25VA	27VA	18VA	23VA
Internal battery back-up system in case of power failure, capacity of battery	7Ah	7Ah	7Ah	7Ah	7Ah	7Ah	7Ah	7Ah	7Ah	7Ah	7Ah	7Ah	7Ah	7Ah	7Ah
Typical standby time, with a fully-charged battery	24 hrs	24 hrs	24 hrs	6 hrs	8 hrs	7 hrs	6 hrs	7 hrs	6 hrs	24 hrs	24 hrs	24 hrs	9 hrs	24 hrs	24 hrs

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Solar power panels can be connected to power the energizers, (recommended Watt size for 24-hour operation)**	60 Watts	60 Watts	60 Watts	120 Watts	140 Watts	120 Watts	140 Watts	120 Watts	140 Watts	60 Watts	90 Watts	140 Watts	140 Watts	90 Watts	140 Watts
Solar voltage regulator	5Amp	5Amp	5Amp	10Amp	15Amp	10Amp	15Amp	10Amp	15Amp	5Amp	10Amp	15Amp	15Amp	10Amp	15Amp
Deep cycle battery size recommended in Amp hours (25% discharge over a 24-hour cycle)	60Ah	60Ah	60Ah	100Ah	150Ah	100Ah	150Ah	100Ah	150Ah	60Ah	100Ah	150Ah	150Ah	100Ah	150Ah
Wire Length Per Energizer (Live Wires in a Series System) for Both Solid and Stranded Wires															
Galvanised wires, 1.2mm															
• Optimal performance up to	2km	3km	3km	8km	10km	2 x 4km	2 x 5km	2 x 4km	2 x 5km	3km	5km	10km	15km	2 x 2.5km	2 x 4km
• Maximum	4km	5km	5km	18km	25km	2 x 9km	2 x 13km	2 x 9km	2 x 13km	5km	8km	25km	35km	2 x 4km	2 x 6km
Galvanised wires, 2.0mm, 2.24mm															
• Optimal performance up to	3km	4km	4km	16km	20km	2 x 8km	2 x 10km	2 x 8km	2 x 10km	3.3km	5km	20km	20km	2 x 3km	2 x 4km
• Maximum	6km	10km	10km	35km	50km	2 x 17km	2 x 25km	2 x 17km	2 x 25km	6.6km	12km	50km	50km	2 x 6km	2 x 10km
Stainless steel 1.0mm, 304 and 316 grade															
• Optimal performance up to	0.5km	0.6km	0.6km	0.6km	0.7km	2 x 0.7km	2 x 0.8km	2 x 0.7km	2 x 0.8km	0.6km	0.7km	0.8km	0.9km	2 x 0.6km	2 x 0.7km
• Maximum	0.6km	0.9km	0.9km	0.9km	1km	2 x 1km	2 x 1.2km	2 x 1km	2 x 1.2km	0.9km	1km	1km	1.2km	2 x 0.9km	2 x 1.1km
Stainless steel 1.2mm, 304 and 316 grade															
• Optimal performance up to	0.6km	0.7km	0.7km	0.8km	1km	2 x 0.8km	2 x 1km	2 x 0.8km	2 x 1km	0.7km	0.8km	1km	1km	2 x 0.7km	2 x 0.9km
• Maximum	0.9km	1km	1km	1.1km	1.3km	2 x 1.1km	2 x 1.3km	2 x 1.1km	2 x 1.3km	1km	1.1km	1.3km	1.3km	2 x 1km	2 x 1.2km
Stainless steel 1.6mm, 304 and 316 grade															
• Optimal performance up to	1.2km	1.4km	1.4km	1.6km	2km	2 x 1.6km	2 x 2km	2 x 1.6km	2 x 2km	1.4km	1.6km	2km	2km	2 x 1.5km	2 x 1.9km
• Maximum	1.8km	2km	2km	2.2km	2.6km	2 x 2.2km	2 x 2.6km	2 x 2.2km	2 x 2.6km	2km	2.2km	2.6km	2.6km	2 x 2.1km	2 x 2.5km
Stainless steel 2.0mm, 304 and 316 grade															
• Optimal performance up to	1.8km	2.1km	2.1km	2.4km	3.3km	2 x 2.4km	2 x 3km	2 x 2.4km	2 x 3km	2.1km	2.4km	3.3km	3km	2 x 2.3km	2 x 2.9km
• Maximum	2.7km	3km	3km	3.3km	3.9km	2 x 3.3km	2 x 3.9km	2 x 3.3km	2 x 3.9km	3km	3.3km	3.9km	3.9km	2 x 3.2km	2 x 3.8km
Aluminium wire 1.6mm and 2.0mm															
• Optimal performance up to	6km	8km	8km	32km	40km	2 x 16km	2 x 20km	2 x 16km	2 x 20km	8km	10km	40km	40km	2 x 6km	2 x 8km
• Maximum	12km	16km	16km	60km	80km	2 x 30km	2 x 40km	2 x 30km	2 x 40km	16km	20km	80km	80km	2 x 12km	2 x 16km
Multi-energizer Systems															
Can be used in multi-energizer network system						Yes	Yes No	Yes	Yes					Yes	Yes
Compliance															
IEC 60335-2-76 Cispr 14, EN 61000	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Output energy is a function of component tolerance and energy settings, and is reduced during power failure.

YES* Indicates that this function is available at the cost of another function, further details are on our website www.nemtek.com.

** Solar panel sizes and battery capacities are based on the exposure to sunlight in southern Africa and can change depending on the location of the solar panels.

*** All energizers are manufactured with a 230Vac ± 10% transformer, 110 Volts are available on request. Batteries are supplied as a standard.

Specification may change without prior notice.