### Energizer Specifications

<table>
<thead>
<tr>
<th>Nemtek Energizer Brand</th>
<th>Wizard</th>
<th>Merlin</th>
<th>Merlin Stealth™</th>
<th>Stealth Master</th>
<th>Druid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Number</td>
<td>Z1</td>
<td>4i</td>
<td>M155</td>
<td>M185</td>
<td>M255</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4i</td>
<td>M185</td>
<td>M295</td>
<td>M295</td>
</tr>
<tr>
<td></td>
<td></td>
<td>M155</td>
<td>M295</td>
<td>M255</td>
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<td></td>
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<td>M185</td>
<td>M295</td>
<td>M295</td>
<td>M295</td>
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<td>M255</td>
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<td>M295</td>
<td>M255</td>
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<td>M295</td>
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<td></td>
<td>M295</td>
<td>M295</td>
<td>M295</td>
<td>M295</td>
</tr>
</tbody>
</table>

#### Energizer Dimensions

- **High Voltage Outputs**
  - Typical energy output into 500 (drug load) (kWh/kW):
    - Z1: 3.3J
    - 4i: 3.3J
    - M155: 4.8J
    - M185: 7.6J
    - M255: 7.6J
    - M295: 9.8J
  - Output voltage into an open circuit:
    - 7.600V
    - 8.000V
    - 8.300V
    - 8.600V
    - 9.300V
    - 9.600V
    - 9.900V
    - 10.200V

- **High or low voltage modes, alarm monitoring is enabled in both modes. Output voltage settings can be changed for both the high and low voltage modes.**
  - Number of high voltage monitored zones:
    - Yes
  - Number of earth loop monitored zones:
    - Yes

- **Adaptive Power Technology (APT), reducing false alarms and acting on the fence.**
  - Yes

- **Fence interference detection from foreign energizers.**
  - Yes

#### Energizer Controls and Displays

- **Keypads for the remote control of the energizer.**
  - No
  - 4 max
  - 4 max
  - 4 max
  - 4 max
  - 4 max
  - 4 max
  - 4 max
  - 4 max
  - 4 max

- **Tap switch - to control the energizer without using a keypad.**
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes
  - Yes

- **Remote on/off input.**
  - Yes*
  - Yes*
  - Yes*
  - Yes*
  - Yes*
  - Yes*
  - Yes*
  - Yes*
  - Yes*
  - Yes*

- **Displays the output and return voltages.**
  - Yes

- **Display type.**
  - LED
  - LED
  - LED
  - LED
  - LED
  - LED
  - LED

#### Gate and Panic Button Inputs

- **Timed gate switch input, used to monitor opening and closing of the gate.**
  - Yes*
  - Yes*
  - Yes*
  - Yes*
  - Yes*
  - Yes*
  - Yes*
  - Yes*
  - Yes*
  - Yes*

- **Panic button input.**
  - 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

- **Strobe light output to visually indicate an alarm condition.**
  - 1
  - 1
  - 1
  - 1
  - 1
  - 1
  - 1
  - 1
  - 1

#### Power Supply and Battery Backup Systems

- **Mains supply voltage***
  - 230V
  - 230V
  - 230V
  - 230V
  - 230V
  - 230V
  - 230V
  - 230V
  - 230V
  - 230V

- **Typical power consumption under normal operating conditions.**
  - 174A
  - 181A
  - 185A
  - 274A
  - 278A
  - 279A
  - 279A
  - 279A
  - 279A
  - 279A

- **Internal battery backup system in case of power failure, capacity of battery.**
  - 7Ah
  - 7Ah
  - 7Ah
  - 7Ah
  - 7Ah
  - 7Ah
  - 7Ah
  - 7Ah
  - 7Ah
  - 7Ah

- **Typical standby time, with a fully-charged battery.**
  - 24 hrs
  - 24 hrs
  - 24 hrs
  - 24 hrs
  - 9 hrs
  - 24 hrs
  - 24 hrs
  - 24 hrs
  - 24 hrs
  - 24 hrs
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<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Model Number</td>
<td>2i</td>
<td>4i</td>
<td>M155</td>
<td>M185</td>
<td>M255</td>
</tr>
<tr>
<td></td>
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<td>M295</td>
<td>M295</td>
<td>M325</td>
</tr>
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<td>M25M</td>
<td>M28M</td>
<td>M35M</td>
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<td></td>
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<td>13 LCD</td>
<td>15 LCD</td>
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<td>24 LCD</td>
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<tr>
<td>Solar power panels can</td>
<td>60</td>
<td>60</td>
<td>120</td>
<td>160</td>
<td>160</td>
</tr>
<tr>
<td>be connected to power</td>
<td>Watts</td>
<td>Watts</td>
<td>Watts</td>
<td>Watts</td>
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<tr>
<td>the energizers, (recommended</td>
<td>720</td>
<td>720</td>
<td>720</td>
<td>720</td>
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<tr>
<td>Watt rate for 24-hour</td>
<td>Watts</td>
<td>Watts</td>
<td>Watts</td>
<td>Watts</td>
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<tr>
<td>operation**</td>
<td></td>
<td></td>
<td></td>
<td>90</td>
<td>90</td>
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<tr>
<td>Solar voltage regulator</td>
<td>5Amp</td>
<td>5Amp</td>
<td>5Amp</td>
<td>10Amp</td>
<td>10Amp</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>15Amp</td>
<td>15Amp</td>
</tr>
<tr>
<td>Deep cycle battery.</td>
<td>40Ah</td>
<td>40Ah</td>
<td>100Ah</td>
<td>100Ah</td>
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<tr>
<td>size recommended in</td>
<td></td>
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<td></td>
<td>150Ah</td>
<td>150Ah</td>
</tr>
<tr>
<td>Amp hours (25% discharge over a</td>
<td></td>
<td></td>
<td></td>
<td>150Ah</td>
<td>150Ah</td>
</tr>
<tr>
<td>24-hour cycle)</td>
<td></td>
<td></td>
<td></td>
<td>150Ah</td>
<td>150Ah</td>
</tr>
</tbody>
</table>

** Wire Length Per Energizer (Live Wires in a Series System) for Both Solid and Stranded Wires **

** Galvanized wires, 1.2mm **
- Optimal performance up to: 2km, 3km, 4km, 4km, 5km, 10km, 2x4km, 2x5km, 2x6km, 2x6km, 3km, 5km, 10km, 15km, 2x2.2km, 2x4km
- Maximum: 6km, 9km, 18km, 25km, 2x9km, 2x18km, 5km, 8km, 25km, 35km, 2x9km, 2x18km

** Galvanized wires, 2.0mm, 2.24mm **
- Optimal performance up to: 3km, 4km, 4km, 16km, 20km, 2x8km, 2x10km, 2x8km, 2x13km, 3km, 5km, 10km, 20km, 20km, 2x13km, 2x10km
- Maximum: 6km, 10km, 15km, 35km, 50km, 2x17km, 2x25km, 2x17km, 2x25km, 6km, 12km, 50km, 50km, 2x25km, 2x17km

** Stainless steel 1.5mm, 304 and 316 grade **
- Optimal performance up to: 0.5km, 0.6km, 0.6km, 0.7km, 2.0km, 2.0km, 2.0km, 0.8km, 0.7km, 1km, 1km, 1km, 1km
- Maximum: 0.6km, 0.9km, 0.9km, 1km, 1km, 1km, 1km, 1km, 1km, 1km, 1km, 1km

** Stainless steel 1.2mm, 304 and 316 grade **
- Optimal performance up to: 1.2km, 1.4km, 1.4km, 1.6km, 2km, 2km, 2km, 1.6km, 1.6km, 2km, 2km, 2km
- Maximum: 1.8km, 2km, 2km, 2.2km, 2.4km, 2km, 2.2km, 2km, 2.2km, 2km, 2km, 2.4km

** Stainless steel 1.6mm, 304 and 316 grade **
- Optimal performance up to: 1.6km, 2.1km, 2.1km, 2.4km, 3km, 2x2.4km, 2x2.4km, 2x2.4km, 2x2.4km, 2x2.4km, 2x2.4km, 2x2.4km
- Maximum: 2.7km, 3km, 3km, 3.2km, 3.9km, 2x3.9km, 2x3.9km, 2x3.9km, 3km, 3.9km, 3.9km, 3.9km, 3.9km, 3.9km

** Aluminium wire 1.6mm and 2.0mm **
- Optimal performance up to: 6km, 8km, 8km, 32km, 40km, 2x16km, 2x28km, 2x16km, 2x28km, 8km, 10km, 40km, 40km, 2x8km, 2x8km
- Maximum: 12km, 16km, 16km, 60km, 80km, 2x30km, 2x60km, 2x30km, 2x60km, 14km, 20km, 80km, 80km, 2x16km, 2x16km

** Multi-energizer Systems **
- Can be used in multi-energizer networks system: No, Yes, Yes, Yes, Yes, Yes, Yes, Yes, Yes, Yes, Yes, Yes, Yes, Yes, Yes

** Compliance **
- CE 03375-2-24, Cigpr 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.