

## 0.5 J – 4.0 J Mains Energizers



**Powers up to 5 km**  
 0.5 J output energy  
 0.7 J stored energy



**Powers up to 10 km**  
 1.0 J output energy  
 1.4 J stored energy



**Powers up to 20 km**  
 2.0 J output energy  
 2.7 J stored energy



**Powers up to 30 km**  
 3.0 J output energy  
 4.5 J stored energy



**Powers up to 40 km**  
 4.0 J output energy  
 6.3 J stored energy

- Indicator light (pulse) indicates the Energizer is working
- Large terminals – make inserting wires and getting a good connection easy
- Versatile mounting options – can be mounted on a wall, post or fence wire
- Versatile power options – battery leads sold separately
- Included in packaging – user manual and mains power adaptor
- 2 year warranty.

| PRODUCT CODE | DESCRIPTION                                    | MARKET AVAILABILITY             | GTIN 13 (EACH) |
|--------------|------------------------------------------------|---------------------------------|----------------|
| 828354       | ENGR SPE 500M UK IE                            | Ireland, United Kingdom         | 9414731420692  |
| 827981       | ENGR SPE 1000M UK IE                           | Ireland, United Kingdom         | 9414731420166  |
| 827982       | ENGR SPE 2000M UK IE                           | Ireland, United Kingdom         | 9414731420173  |
| 827983       | ENGR SPE 3000M UK IE                           | Ireland, United Kingdom         | 9414731420180  |
| 828241       | ENGR SPE 4000M UK IE                           | Ireland, United Kingdom         | 9414731420609  |
| 828355       | ENGR SPE 500M EU                               | Europe                          | 9414731420708  |
| 827984       | ENGR SPE 1000M EU                              | Europe                          | 9414731420197  |
| 827985       | ENGR SPE 2000M EU                              | Europe                          | 9414731420203  |
| 827986       | ENGR SPE 3000M EU                              | Europe                          | 9414731420210  |
| 828242       | ENGR SPE 4000M EU                              | Europe                          | 9414731420616  |
| 811079P      | Premium battery leads with red and black clips | Ireland, United Kingdom, Europe | 9414731419962  |

# SPECIFICATIONS

|                                                                                                           |                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product size (W x H x D)<br>Carton size (W x H x D)<br>Shipper size (5 units)<br>Shipper weight (5 units) | 170 x 240 x 78 mm<br>175 x 245 x 140 mm<br>430 x 265 x 250 mm<br>11 kg                                                                                           |
| Safety standard compliance                                                                                | EN 60335-2-76 with EN 60335-1<br>IEC 60335-2-76 with IEC 60335-1<br><br><b>Power adaptor</b><br>EN 61558-2-16 with EN 61558-1<br>IEC 61558-2-16 with IEC 61558-1 |
| EMC standard compliance                                                                                   | EN 55014-1, EN 55014-2, EN 61000-3-2 and EN 61000-3-3                                                                                                            |
| Ingress protection category                                                                               | IP24                                                                                                                                                             |
| Input voltage                                                                                             | 12 V / 100 – 240 V                                                                                                                                               |
| Operating temperature                                                                                     | -15 to 50 °C                                                                                                                                                     |
| Pulse speed                                                                                               | Normal (fast): 1.5 sec / pulse for light loads<br>Slow: 2.5 sec / pulse                                                                                          |

|                                     | 500M    | 1000M   | 2000M    | 3000M    | 4000M    |
|-------------------------------------|---------|---------|----------|----------|----------|
| Maximum stored energy               | 0.7 J   | 1.4 J   | 2.7 J    | 4.5 J    | 6.3 J    |
| Maximum output energy (at 500 Ω)    | 0.5 J   | 1.0 J   | 2.0 J    | 3.0 J    | 4.0 J    |
| Typical output voltage performance: |         |         |          |          |          |
| Open circuit                        | 8,300 V | 9,800 V | 11,000 V | 11,400 V | 11,400 V |
| Standard load (1000 Ω)              | 5,700 V | 7,000 V | 7,700 V  | 8,100 V  | 8,200 V  |
| Heavy load (500 Ω)                  | 4,400 V | 5,300 V | 5,900 V  | 6,200 V  | 6,300 V  |
| Heavy load (300 Ω)                  | 3,300 V | 4,100 V | 4,500 V  | 4,800 V  | 4,800 V  |
| Heavy load (200 Ω)                  | 2,500 V | 3,100 V | 3,500 V  | 3,700 V  | 3,800 V  |
| Very heavy load (100 Ω)             | 1,500 V | 1,900 V | 2,100 V  | 2,300 V  | 2,600 V  |
| Minimum number of earth rods        | 1       | 1       | 2        | 3        | 4        |
| Current consumption battery         | 60 mA   | 110 mA  | 210 mA   | 340 mA   | 480 mA   |

Values are typical and normal production tolerances should be allowed for.



NEW ZEALAND – HEAD OFFICE  
Tru-Test Limited  
PO Box 51078 Pakuranga  
Auckland 2140  
Phone +64 9 574 8888  
Fax +64 9 574 8889

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