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|------------------------------------------------------------------------------------|---|-----------|--|--|-----------|
| PRODUCT SPECIFICATION                                                              |   |           |  |  |           |
| Individual Product Specification                                                   |   |           |  |  |           |
| <div>Specifications for<br/>Cylindrical Zinc Carbon Battery<br/>R14 (DRNF-W)</div> |   |           |  |  |           |
| Date of stipulation:<br>1999-04-28                                                 | S | tipulated |  |  | Described |

| PRODUCT SPECIFICATION                                                                                                                                                 |                 |                            |           |                            | Mix      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------|-----------|----------------------------|----------|
| Individual Product Specification                                                                                                                                      |                 |                            |           |                            | DRNF-W   |
| 1. Battery identification                                                                                                                                             |                 |                            |           |                            |          |
|                                                                                                                                                                       | name            | R14 / UM 2                 |           |                            |          |
|                                                                                                                                                                       | type            | zinc carbon / metal jacket |           |                            |          |
|                                                                                                                                                                       | nominal voltage | 1.5 V                      |           |                            |          |
|                                                                                                                                                                       | average weight  | 47 gr.                     |           |                            |          |
|                                                                                                                                                                       | manufactured by | PMBP                       |           |                            |          |
| 2. Battery dimensions                                                                                                                                                 |                 |                            |           |                            |          |
|                                                                                                                                                                       |                 | As per attached drawing    |           |                            |          |
| 3. Typical battery performance                                                                                                                                        |                 |                            |           |                            |          |
|                                                                                                                                                                       |                 | Discharge modes            |           |                            |          |
| Test                                                                                                                                                                  | Resistance      | Daily period               | End point | Result *                   | Result** |
| Radio                                                                                                                                                                 | 20 Ω            | 4 h                        | 0.9 V     | 43.0 h                     | 36.0 h   |
| Recorder                                                                                                                                                              | 6.8 Ω           | 1 h                        | 0.9 V     | 12.7 h                     | 10.4 h   |
| Motor                                                                                                                                                                 | 3.9 Ω           | 1 h                        | 0.8 V     | 6.6 h                      | 4.8 h    |
| LIF                                                                                                                                                                   | 3.9 Ω           | 4 min./h , 8 h/ day        | 0.9 V     | 415 min                    | 350 min  |
| Open circuit voltage (OCV)                                                                                                                                            |                 |                            |           |                            |          |
| Minimum average duration                                                                                                                                              |                 |                            |           |                            |          |
|                                                                                                                                                                       |                 |                            | Initial*  | After 12 months storage ** |          |
| OCV (at 20±2 <sup>0</sup> C)                                                                                                                                          |                 |                            | 1.6 V     | 1.52 V                     |          |
| Min. aver. duration (at 20±2 <sup>0</sup> C)***                                                                                                                       |                 |                            | 36.0 h    | 25.0 h                     |          |
| * The initial discharge test shall commence with 30 days since manufacture.<br>During this period, the batteries are kept under the condition of 20±2 <sup>0</sup> C. |                 |                            |           |                            |          |
| ** During this period, the batteries shall also be kept under the condition of 20±2 <sup>0</sup> C.                                                                   |                 |                            |           |                            |          |
| *** 20 Ω, 4 h / day, 0.9 V                                                                                                                                            |                 |                            |           |                            |          |
| Mercury and Cadmium contents                                                                                                                                          |                 |                            |           |                            |          |
| No Mercury (Hg) and Cadmium (Cd) are used in battery.                                                                                                                 |                 |                            |           |                            |          |
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