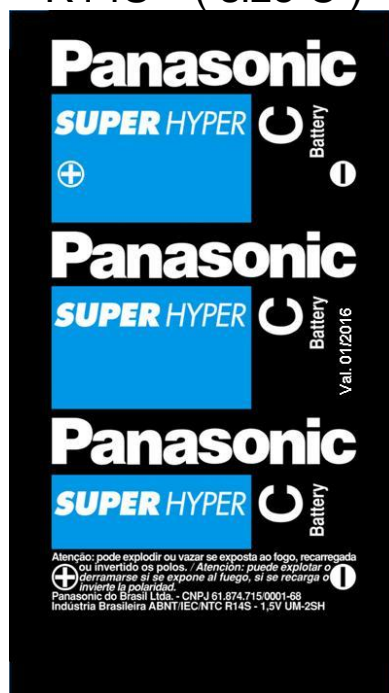


# Specifications for Cylindrical Zinc-Carbon Dry Battery

R14S ( size C )

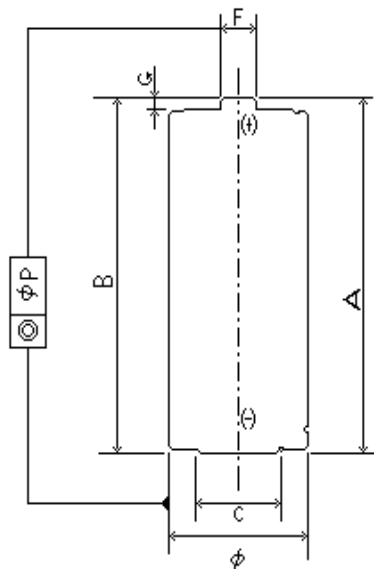


\* No Mercury and Cadmium added.

<b>PRODUCT SPECIFICATIONS</b>					
<b>Individual Product Specification</b>					
<div style="border: 1px solid black; padding: 10px;"> <p><b>1. Model No.</b> : R14S</p> <p><b>2. Nominal Voltage</b> : 1.5 volts</p> <p><b>3. Average Weight</b> : 43,5 g</p> <p><b>4. Dimensions</b> : As per attached drawing</p> <p><b>5. Terminals</b> : (+)Cap, (-)Base</p> <p><b>6. Cells and Connection</b> : One R14 ("C"size) cell</p> <p><b>7. Performance</b></p> <p style="margin-left: 20px;"><b>7.1 Open-circuit Voltage</b> : As per attached Table-1</p> <p style="margin-left: 20px;"><b>7.2 Service Life</b> : As per attached Table-1</p> <p><b>8. Electrolyte Leakage and Deformation</b> :</p> <p style="margin-left: 40px;">There shall be neither evidence of electrolyte leakage on the external surface of any battery nor deformation out of the specified dimension in the attached drawing at any time prior to or during the specified discharge test in Table-1, Test-1 and Test-2.</p> <p style="margin-left: 40px;">Test-1 : The battery is discharged with the specified load resistance and time schedule until the voltage on load drops for the first time below 40 % of the nominal voltage.</p> <p style="margin-left: 40px;">Test-2 : The battery shall be kept for 30 days at the temperature 45±2 °C and the relative humidity below 70 %(RH).</p> <p><b>9. Mercury and Cadmium</b> :</p> <p style="margin-left: 40px;">Mercury and Cadmium are not used in the battery.</p> </div>					
sym.	Date of Revision	Remarks			
Date of Stipulation		Stipulated			Described
MAI/2013					

## PRODUCT SPECIFICATIONS

### Individual Product Specification



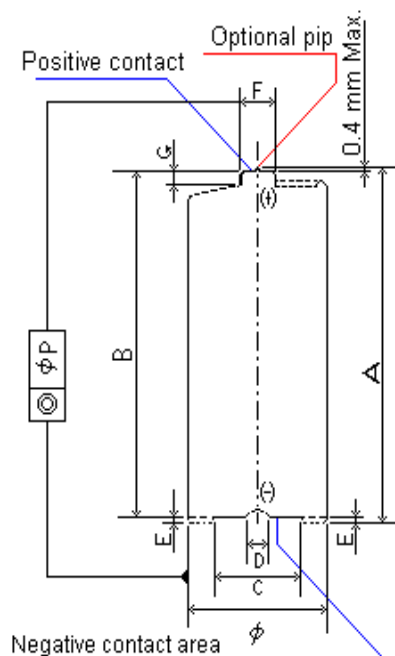
R14S

unit : mm

	Max.	Min.
<b>A</b>	<b>50,0</b>	—
<b>B</b>	—	<b>48,6</b>
<b>C</b>	—	<b>13,0</b>
<b>D</b>	—	—
<b>E</b>	<b>0,9</b>	—
<b>F</b>	<b>7,5</b>	—
<b>G</b>	—	<b>1,5</b>
<b>φ</b>	<b>26,2</b>	<b>24,9</b>
<b>φ P</b>	<b>1,0</b>	—
<b>pip</b>	—	—

Note 1. Numerical value in parentheses ; reference

2. The symbols of dimensions are as following.




Reference : IEC 60086-2

- A = Overall height
- B = Distance between (+) and (-) terminals, excluding pip.
- C = Outer diameter of (-) flat contact surface
- C = Diameter of concave part of central (-) terminal.
- D = This model has none of concave part. Recess of (-) flat contact surface from outside cover.
- E = This model has the projected (-) contact. Diameter of the specified projection of (+) terminal.
- F = Projected height of (+) contact, excluding pip. Diameter of the battery
- G = Difference in coaxiality between (+) contact and cylindrical corner side.
- φ = Outer diameter of (-) flat contact surface
- P = Optional projection on (+) contact.
- Pip = This model has none of pip.

# PRODUCT SPECIFICATIONS

## Individual Product Specification

**Table 1 R14S Performance**

Open circuit Voltage at 20 ± 2 °C			Initial <sup>1)</sup>			After 12 months <sup>2)</sup>		
			1.57 + 0.09 - 0			1.53 + 0.07 - 0		
		Unit.	IEC	Typical	Guarantee	IEC	Typical	Guarantee
<b>Service life</b>  <b>at 20±2 °C</b>  <b>IEC 60086-2 2004</b>  	3.9 Ω 4 mph- 8 hpd (0.9 V)	Min.	120	240	200	96	200	180
	20 Ω 4 hpd (0,9 V)	Hr.	15	22	17	12	19	15
	3,9 Ω 1 hpd (0.8 V)	Hr.	1,5	3,7	3,0	1,2	3,0	2,0

Note <sup>1)</sup> The initial discharging test shall commence within 30 days since manufacture.

<sup>2)</sup> During the specified period, the battery shall be kept under the condition of temperature 20±2 °C and relative humidity 65±20 %.

CONFIDENCIAL

1	12/05/2013	Deleted Test 6.8 Ω 1hpd; IEC 60086-2 edition was 2004
Sym.	Date of Revision	Remarks
Date of Stipulation	Stipulated	Described
MAI/2013		