Panasonic

Panasonic Energy Poland S. A.
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Tel (+48)(61) 42 30 000 / Fax (+48)(61) 42 30 010
Regon 570133159; NIP 764-10-03-272; KRS 40325

		1
Individual Product Specification	ľ	
Specifications for Cylindrical Zinc Carbon Battery R03 (N)		
Date of stipulation: 2014-09-01 Described A. Komocka J. Janas Date of distribution	T. N	roved (anno roved (anno

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PRODUCT SPECIFICATION	Mix
Individual Product Specification	

1. Battery identification name R03 / AAA

type zinc carbon / tube jacket

nominal voltage 1.5 V average weight 9 gr. PECPL S.A.

2. Battery dimensions As per attached drawing

3. Typical battery performance Discharge modes

Test	Resista	Daily period	End point	Initial *	After 12
	nce				months
					storage**
Radio	75 Ω	4 h	0.9 V	26 h	23.5 h
Recorder	10 Ω	1 h	0.9 V	2.2 h	1.9 h
Lif	5.1 Ω	4 min/h, 8h/day	0.9 V	67 min	61 min
Pulse	3.6Ω	15 sec / min. 24 h	0.9 V	145	130

Open circuit voltage (OCV) Minimum average duration

	Initial*	After 12 months
		storage **
$OCV (at 20\pm2^{0}C)$	1.6 V	1.52 V
Min. aver. duration (at 20±2°C)***	26 h	23.5 h

- * The initial discharge test shall commence with 30 days since manufacture. During this period, the batteries are kept under the condition of 20±2°C.
- ** During this period, the batteries shall also be kept under the condition of 20±2°C.

*** 75 Ω , 4 h / day, 0.9 V

4. Heavy metals contents

No Lead (Pb), No Mercury (Hg) and Cadmium (Cd) are used in battery.

Date of stipulation:	Described	Stipulated	Approved
20013-06-20	A. Komocka	J. Janas	T. Nanno
Date of distribution			Approved
			T. Nanno

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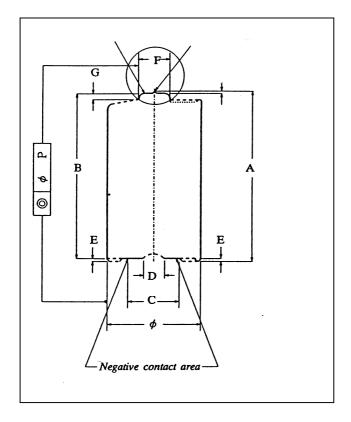
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PRODUCT SPECIFICATION

Individual Product Specification

Size: IEC: R03



Dim	Max	Min
Ø	10.5	9.5
A	44.5	43.3
В	-	43.3
С	1	4.3
D	-	-
Е	0.5	
F	3.8	-
G	-	0.8
Pip	0.4	

Voltage	1.5 V
Terminal	(+) Cap
	(-) Base
Average	
weight	9 g

Scale	Carbon Zinc Dry Battery R03		
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