PRODUCT SPECIFICATION	
Individual Product Specification	

Specifications for Cylindrical Zinc Carbon Battery R20 (DRNF-W)

PRODUCT SPECIFICATION	Panasonic
Individual Product Specification	

1. Battery identification name R20 / UM 1

type zinc carbon / metal jacket

nominal voltage 1.5 V average weight 100 gr. manufactured by PMBP

2. Battery dimensions As per attached drawing

3. Typical battery performance Discharge modes

Test	Resista	Daily period	End point	Result *	R esult**
	nce				
Radio	10 Ω	4 h	0.9 V	43.0 h	37.8 h
Recorder	3.9Ω	1 h	0.9 V	14.7 h	13.1 h
Motor	2.2 Ω	1 h	0.8 V	6.7 h	5.4 h
LIF	2.2 Ω	4 min./h , 8 h/ day	0.9 V	425 min	360 min

Open circuit voltage (OCV) Minimum average duration

	Initial*	After 12 months
		storage **
OCV (at 20±2 ⁰ C)	1.6 V	1.52 V
Min. aver. duration (at 20±2°C)***	35.7 h	27.2 h

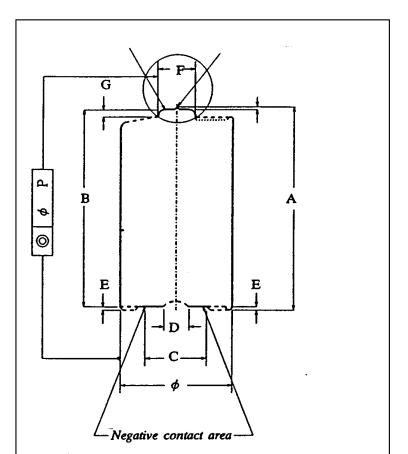
- * The initial discharge test shall commence with 30 days since manufacture. During this period, the batteries are kept under the condition of 20±2°C.
- ** During this period, the batteries shall also be kept under the condition of 20±2°C.
- *** 10 Ω, 4 h / day, 0.9 V

4. Mercury and Cadmium contents

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

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Size: IEC:

IEC: R20

Dim	Max	Min
Ø	34.2	32.3
Α	61.5	59.5
В		59.5
C		18.0
D	7.5	
Е	1.0	
F	9.5	7.8
G		1.5
Pip	0.4	

V oltage	1.5 V
Terminal	(+) Cap
	(-) Base
A verage	
weight	100 g
Jacket	Metal