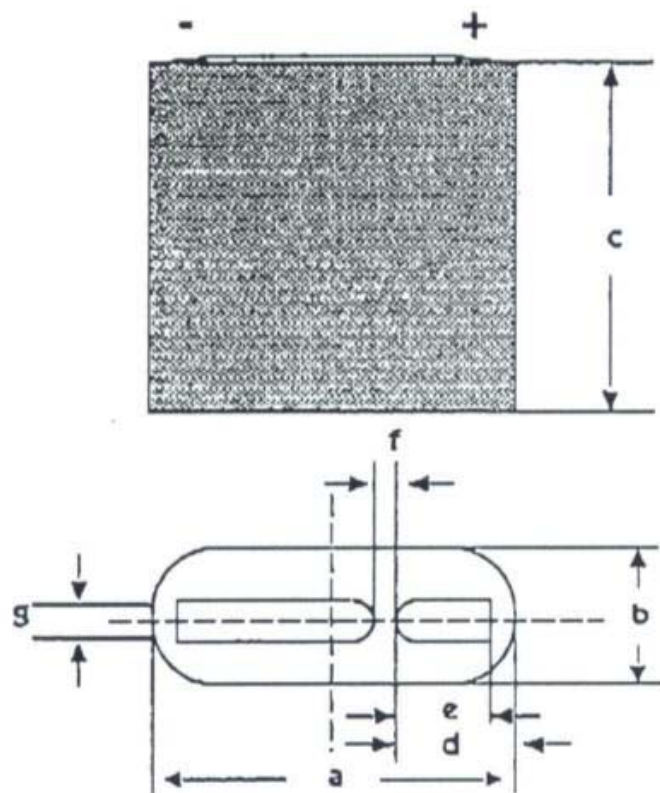


PRODUCT SPECIFICATION					3 pages	
Individual Product Specification						
Specifications for Prismatic Zinc Carbon Battery 3R12R						
Date of stipulation: 1992-03-02		Stipulated				Described

PRODUCT SPECIFICATION					Mix
Individual Product Specification					
1. Battery identification	name	3R12R			
	type	Leclanché/MNO ² / Zn / NH ₄ Cl electrolyte			
	nominal voltage	4.5 V			
	average weight	110 gr.			
	manufactured	Made in EU			
2. Battery dimensions	As per attached drawing				
	Volume : 84.4 cm ³				
3. Typical battery performance	Discharge modes				
Test	Resistance	Daily period	End point	Result	Ampère
	15 Ω	4 min/h, 8h/d , 7 d/w	3.0/2.7 V	310m/380m	1.18/1.40
	10 Ω	10 min/d , 7 d/w	3.0/2.7 V	225m/280m	1.21/1.46
	75 Ω	4h/d, 7 d/w	3.0/2.7 V	28h/31h	1.35/1.47
Open circuit voltage (OCV)					
Minimum average duration					
		Initial*	After 12 months storage **		
OCV (at 20±2 ⁰ C)		4.5 V			
Min. aver. duration (at 20±2 ⁰ C)***		22.0 h			
* The initial discharge test shall commence with 30 days since manufacture. During this period, the batteries are kept under the condition of 20±2⁰C. ** During this period, the batteries shall also be kept under the condition of 20±2⁰C. *** 220 Ω, at 20°C down to 2.7 V					
4. Mercury and Cadmium contents					
No Mercury (Hg) and Cadmium (Cd) are used in battery.					



Dim	Max	Min
a	62 mm	60 mm
b	22 mm	20 mm
c	67 mm	63 mm
d		23 mm
e		16 mm
f		1 mm
g	7 mm	6 mm

