



VARTA Microbattery combines entrepreneurial substance, strategic visions and technological competency for constantly improved products, application oriented designs and innovative product development. For more information please visit our internet page www.varta-microbattery.com

Capacity Range

From V 6 HR to V 650 HRT, from 6 mAh up to 650 mAh – VARTA provides a full programme of rechargeable button cells for all performance requirements.

Quality – Made in Germany

- manufactured on highly automated lines
- direct replacement for Ni-Cd
- no memory effect
- 0% lead, 0% mercury and 0% cadmium
- UL recognition under file BBET2.MH13654

Key Features - Benefits

- Safety: built-in pressure vent guarantees safety in case of mistreatment
- Low self discharge: no handling, no charging ready to use after storage due to superior self discharge performance
- Cycle Life: extended product life time of more than 1000 cycles (IEC)
- Overcharge capability: cost effective charging system with no need for special components due to patented GCE electrode
- Deep discharge capability: longer lasting shelf-life with high capacity retention after deep discharge
- No leakage: direct mounting on PCB possible due to patented crimp sealing system



High performance button cell with superior overcharge stability and discharge currents \leq 2 CA.

Based on mass electrode technology, temperature range -25°C to $+65^{\circ}\text{C}$.

Typical Applications:

■ Memory Backup ■ Real Time Clock ■ Mobile Light

Type Designation	Type No.	Voltage (V)	Capacity (mAh)
V 15 H	55602	1.2	16
V 40 H	55604	1.2	43
V 80 H	55608	1.2	80
V 150 H	55615	1.2	150
V 200 H	55620	1.2	210
V 250 H	55625	1.2	250
CP 300 H	55630	1.2	300
V 350 H	55635	1.2	380



High performance button cell with superior overcharge stability and discharge currents ≤ 2 CA at high temperature. Based on mass electrode technology, temperature range -25°C to +85°C.

Typical Applications:

■ Industrial Electronics ■ Automotive Applications

Type Designation	Type No.	Voltage (V)	Capacity (mAh)		
V 65 HT	55707	1.2	70		
V 110 HT*	55707	1.2	120		
V 150 HT	55715	1.2	150		

^{* 0°- 65°}C



VARTA Microbattery is a leader of Ni-MH button cell technology and received several ecological and industry awards.



Battery Guide

Four button cell families with specific strengths and features provide the ideal battery solution for any application.

	self discharge	over- charge	deep discharge	cycle life	storage behaviour	high rate capability	charge efficienc at high temp.	temperature range	
VH robust	++	++	++	+++	++	+	+	+	
VHT robust85C	++	+++	++	+++	++	+	++	++	
VHR powerful	+	+	+	+++	+	+++	+	+	
VHRT powerful85C	+	+	+	+++	+	++	++	++	
									ı



V...HR powerful

High rate button cell with superior load capability for discharge currents up to 5 CA.

Based on foam electrode technology, temperature range -25°C to +65°C.

Typical Applications:

- Consumer Electronics Health Care Devices
- Wireless Headsets, Headphones

Type Designation	Type No.	Voltage (V)	Capacity (mAh)		
V 6 HR	55996	1.2	6.2		
V 20 HR	55902	1.2	21		
V 450 HR	55945	1.2	450		
V 600 HR	55960	1.2	600		



High rate and high temperature button cell with superior load capability for discharge currents up to 5 CA at high temperature. Based on foam electrode technology, temperature range -25°C to +85°C.

Typical Applications:

- Automotive Electronics Server, Computer
- Emergency Light, Solar Light

Type Designation	Type No.	Voltage (V)	Capacity (mAh)		
V 18 HRT	55802	1.2	19		
V 500 HRT*	55850	1.2	510		
V 500 H(R)T	55750	1.2	510		
V 650 HRT*	55865	1.2	650		

^{* 0° - 65°}C

Application V...HRT



Single cell or assembled power pack – VARTA Button Cells for every application!

6201 0908 1000 · Subject to change without further notice. Errors excepted.

Product Overview

Type Designation	Type No.	Voltage (V)	Capacity (mAh)	Diameter (mm)	Height (mm)	Length (mm)	Width (mm)	Weight (g)
VH robust								
V 15 H V 40 H V 80 H V 150 H V 200 H V 250 H CP 300 H V 350 H	55602 55604 55608 55615 55620 55625 55630 55635	1.2 1.2 1.2 1.2 1.2 1.2 1.2	16 43 80 150 210 250 300 380	11.5 11.5 15.5 25.1 25.1 25.1	3.1 5.35 6.0 5.85 7.4 6.7 7.55 8.8	14.1 14.1	25.6 25.6	1.3 1.7 4.0 6.0 7.0 10.0 11.0
VHT robust85C								
V 65 HT V 110 HT* V 150 HT	55707 55711 55715	1.2 1.2 1.2	70 120 150	15.5	6.0 5.85 5.85	14.1 14.1	25.6 25.6	4.0 6.0 6.0
VHR powerful								
V 6 HR V 20 HR V 450 HR V 600 HR	55996 55902 55945 55960	1.2 1.2 1.2 1.2	6.2 21 450 600	6.8 11.5	2.15 2.25 5.6 6.8	24.1 24.1	34.1 34.1	0.28 0.9 12.5 14.5
VHRT powerful85	VHRT powerful85C							
V 18 HRT V 500 HRT* V 500 H(R)T V 650 HRT*	55802 55850 55750 55865	1.2 1.2 1.2 1.2	19 510 510 650	11.5	2.3 6.6 6.6 6.8	24.2 24.2 24.2	34.1 34.1 34.1	0.9 14.0 14.0 15.0

Voltage and Capacity indicated refer to nominal and typical values respectively. * 0°- 65°C

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