

Product design features:

- 12+ years design life, EUROBAT specification Long Life
- Extremely high cyclic life and float life performance
- Wide range of operating temperature -20°C to +55°C
- One-way valve regulated system with flame-arrestor
- Internal gas recombination efficiency 98% - 99%
- Easy for installation, maintenance free product
- Delivered ready for use
- Shock resistant ABS flame retardant container and lid
- Three-layer terminal sealing for leak-free operation
- Female M8 brass terminals with no need for retightening
- Non-hazardous cargo for ground, sea and air transport
- Fully recyclable product



Electrical Characteristics	
Nominal voltage	2 Volts
10 hour capacity to 1.80 Vpc	518.0 Ah
8 hour capacity to 1.75 Vpc	505.6 Ah
Float voltage	2.27 Vpc at 20°C, 2.25 Vpc at 25°C
Accelerated recharge	According to operational instructions
Shelf life	Up to 1 year
Short circuit current	5940 Amps
Internal resistance	0.35 mΩ

MONBAT Plc. is certified for ISO 9001,
ISO 14001, OHSAS 18001, AQAP 2110

Mechanical Characteristics		
	SI Units	US Units
Length	389 mm	15.2 inches
Width	171 mm	6.6 inches
Height	238 mm	9.1 inches
Typical Weight	32.0 kg	70.5 lbs
Terminal Torque	8.0 Nm	70.8 in.lbs

All MONBAT VRLA batteries are fully
compliant with IEC 60 896 - 21/22,
EN 60 896 - part 2, BS 6290 - part 4

Discharge performance at constant current discharge (A) for battery 2MVR500 at 25°C

Uf, Vpc	5 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.60	1760	983	601	333	196.6	143.9	114.7	96.1	82.4	64.9	53.8	29.5
1.65	1614	945	589	323	194.6	143.1	113.6	94.7	81.2	64.4	53.2	28.9
1.70	1491	901	569	318	192.0	141.3	112.7	94.4	80.8	63.8	52.9	28.6
1.75	1350	861	548	307	187.1	139.3	111.3	93.0	79.7	63.2	52.4	28.3
1.80	1190	798	512	294	182.8	135.9	108.4	91.3	78.1	62.1	51.8	27.8
1.85	1016	715	453	272	172.5	128.8	103.0	87.3	75.2	58.9	49.5	26.9

Discharge performance at constant power discharge (W per cell) for battery 2MVR500 at 25°C

Uf, Vpc	5 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.60	2537	1450	918	554	348.1	255.6	202.7	169.8	146.3	118.3	100.4	56.6
1.65	2413	1412	903	544	343.3	254.6	201.9	168.8	145.5	117.6	99.2	56.0
1.70	2270	1359	890	534	340.5	250.8	200.3	166.9	143.9	116.4	98.9	55.6
1.75	2127	1297	858	523	336.7	248.9	197.7	165.3	142.5	115.1	98.5	55.0
1.80	1898	1183	808	510	328.1	242.2	193.9	162.1	139.8	113.2	96.0	54.6
1.85	1607	1043	725	469	312.8	231.8	186.0	155.7	134.8	109.7	92.8	53.4