

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		
	at 20°C	at 25°C
Nominal voltage	12 Volts	
10 hour capacity to 1.80 Vpc	80.0 Ah	82.0 Ah
8 hour capacity to 1.75 Vpc	77.6 Ah	80.0 Ah
Float voltage	2.27 – 2.29 Vpc	2.25 – 2.27 Vpc
Accelerated recharge	According to operational instructions	
Shelf life	1 year	
Short circuit current	1940 Amps	
Internal resistance	6.4 mΩ	

MONBAT is proud to be certified for ISO 9001,
ISO 14001, OHSAS 18001, AQAP 2110

Mechanical Characteristics		
	SI Units	US Units
Length	395 mm	15.55 inches
Width	105 mm	4.13 inches
Height	255 mm	10.04 inches
Weight	24.5 kg	54.0 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 12MVR80TA at 20°C

Uf, Vpc	5 min	10 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	253	187	144	84	56	31.6	21.8	17.1	14.9	12.6	10.0	8.3	4.5
1.65	249	179	139	82	55	31.3	21.6	16.9	14.8	12.5	9.9	8.2	4.5
1.70	235	170	134	80	54	31.0	21.4	16.8	14.7	12.4	9.8	8.2	4.4
1.75	209	156	126	78	53	30.6	21.3	16.6	14.3	12.2	9.7	8.1	4.3
1.80	181	141	117	75	51	29.1	21.0	16.3	14.0	12.0	9.5	8.0	4.2
1.85	144	118	102	70	48	27.8	20.2	15.6	13.4	11.6	9.2	7.8	4.1

Discharge performance at constant current discharge (A) for battery 12MVR80TA at 25°C

Uf, Vpc	5 min	10 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	261	193	148	87	58	32.6	22.5	17.6	15.3	13.0	10.3	8.6	4.6
1.65	256	184	143	84	57	32.3	22.3	17.4	15.2	12.9	10.2	8.5	4.6
1.70	242	175	138	82	56	32.0	22.1	17.3	15.1	12.8	10.1	8.5	4.5
1.75	215	161	130	80	55	31.5	22.0	17.1	14.8	12.6	10.0	8.3	4.4
1.80	186	145	121	77	53	30.0	21.6	16.7	14.4	12.4	9.8	8.2	4.3
1.85	148	122	105	72	49	28.6	20.8	16.1	13.8	11.9	9.5	8.0	4.2

Discharge performance at constant power discharge (W per cell) for battery 12MVR80TA at 20°C

Uf, Vpc	5 min	10 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	444	326	257	156	104	55.4	42.3	32.7	29.6	24.3	18.8	16.0	8.5
1.65	424	319	252	153	102	54.8	42.0	32.5	29.4	24.2	18.6	15.9	8.4
1.70	387	308	245	149	101	54.4	41.8	32.3	29.1	23.9	18.3	15.6	8.4
1.75	358	288	231	146	99	53.9	41.4	32.0	28.9	23.7	18.1	15.1	8.2
1.80	320	266	214	141	97	53.3	40.8	31.4	28.3	23.3	17.6	14.9	8.1
1.85	264	223	188	130	95	51.8	39.7	30.8	27.4	22.7	17.1	14.6	7.9

Discharge performance at constant power discharge (W per cell) for battery 12MVR80TA at 25°C

Uf, Vpc	5 min	10 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	457	336	265	161	107	57.0	43.6	33.7	30.4	25.1	19.4	16.5	8.8
1.65	437	329	260	158	105	56.5	43.3	33.5	30.3	24.9	19.2	16.4	8.7
1.70	399	317	252	153	104	56.1	43.0	33.3	30.0	24.6	18.8	16.1	8.7
1.75	369	297	238	150	102	55.5	42.6	32.9	29.8	24.4	18.6	15.5	8.4
1.80	330	274	220	145	100	54.9	42.1	32.4	29.2	23.9	18.1	15.3	8.3
1.85	272	230	194	134	97	53.3	40.9	31.7	28.3	23.4	17.6	15.0	8.1