

### 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	12 Volts
10 hour capacity to 1.80 Vpc	82.0 Ah
8 hour capacity to 1.75 Vpc	80.0 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	1940 Amps
Internal resistance	6.4 mΩ

MONBAT Plc. is 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
Typical Weight	25.2 kg	55.6 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 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	261	148	87	58	32.6	22.5	17.6	15.3	13.0	10.3	8.6	4.6
1.65	256	143	84	57	32.3	22.3	17.4	15.2	12.9	10.2	8.5	4.6
1.70	242	138	82	56	32.0	22.1	17.3	15.1	12.8	10.1	8.5	4.5
1.75	215	130	80	55	31.5	22.0	17.1	14.8	12.6	10.0	8.3	4.4
1.80	186	121	77	53	30.0	21.6	16.7	14.4	12.4	9.8	8.2	4.3
1.85	148	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 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	457	265	161	107	57.0	43.6	33.7	30.4	25.1	19.4	16.5	8.8
1.65	437	260	158	105	56.5	43.3	33.5	30.3	24.9	19.2	16.4	8.7
1.70	399	252	153	104	56.1	43.0	33.3	30.0	24.6	18.8	16.1	8.7
1.75	369	238	150	102	55.5	42.6	32.9	29.8	24.4	18.6	15.5	8.4
1.80	330	220	145	100	54.9	42.1	32.4	29.2	23.9	18.1	15.3	8.3
1.85	272	194	134	97	53.3	40.9	31.7	28.3	23.4	17.6	15.0	8.1