

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	92.0 Ah
8 hour capacity to 1.75 Vpc	88.0 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	2280 Amps
Internal resistance	5.5 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	280 mm	11.0 inches
Typical Weight	27.5 kg	60.6 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 12MVR100TA 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	288	164	98	65	38.1	25.0	20.0	17.0	14.2	11.3	9.5	5.2
1.65	279	159	96	64	37.7	24.7	19.8	16.9	14.1	11.2	9.4	5.2
1.70	268	153	93	63	37.3	24.5	19.7	16.6	14.0	11.1	9.3	5.1
1.75	238	144	91	62	36.8	24.3	19.4	16.3	13.8	11.0	9.3	4.9
1.80	206	134	88	59	35.0	24.0	19.0	16.0	13.5	10.7	9.2	4.8
1.85	164	116	82	56	33.4	23.0	18.2	15.4	13.1	10.4	9.0	4.7

**Discharge performance at constant power discharge (W per cell) for battery 12MVR100TA 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	496	290	177	119	70.7	46.9	38.2	32.6	27.6	22.6	19.1	10.4
1.65	480	279	173	117	70.0	46.4	37.6	32.2	27.3	22.4	19.0	10.4
1.70	461	269	169	115	69.6	46.0	37.2	32.1	27.1	22.2	18.5	10.0
1.75	429	259	165	113	68.6	45.9	36.8	31.2	26.8	21.9	18.4	10.0
1.80	369	241	158	109	65.1	45.0	36.1	30.7	26.2	21.5	18.2	9.6
1.85	296	210	147	102	62.1	43.2	34.6	29.5	25.3	20.8	17.6	9.4