

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 more than 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	180.0 Ah
8 hour capacity to 1.75 Vpc	177.6 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	3050 Amps
Internal resistance	3.15 mΩ

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

**Mechanical Characteristics**

	SI Units	US Units
Length	555 mm	21.8 inches
Width	125 mm	4.9 inches
Height	320 mm	12.6 inches
Typical Weight	57.3 kg	126.4 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 12MVR180 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	482	300	197	115	68.0	49.3	37.7	32.4	27.7	22.6	18.5	10.0
1.65	475	290	194	114	67.7	48.2	37.6	32.3	27.6	22.5	18.4	9.84
1.70	440	280	188	111	67.3	48.0	37.5	32.2	27.5	22.4	18.3	9.75
1.75	391	264	178	109	66.8	47.8	37.1	32.0	27.4	22.2	18.1	9.68
1.80	338	246	154	104	66.2	47.4	36.6	31.7	27.2	21.7	18.0	9.61
1.85	297	217	148	98	65.1	46.6	36.0	31.1	26.7	21.6	17.7	9.42

**Discharge performance at constant power discharge (W per cell) for battery 12MVR180 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	915	564	364	221	132.1	97.2	74.5	63.7	54.3	43.1	36.0	19.4
1.65	900	545	359	218	131.7	95.0	74.3	63.6	54.0	42.9	35.7	19.0
1.70	834	526	348	213	130.7	94.0	74.0	63.4	53.9	42.7	35.5	18.9
1.75	741	497	328	209	130.0	93.8	73.4	63.0	53.8	42.0	35.1	18.7
1.80	642	463	286	200	128.7	91.5	72.9	62.4	53.5	41.4	35.0	18.6
1.85	560	408	273	188	126.4	91.9	71.1	61.2	52.3	41.3	34.7	18.5