

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	103.0 Ah
8 hour capacity to 1.75 Vpc	100.0 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	2107 Amps
Internal resistance	3.79 mΩ

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

Mechanical Characteristics

	SI Units	US Units
Length	510 mm	20.1 inches
Width	110 mm	4.3 inches
Height	235 mm	9.3 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 12MVR110F 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	326	173	101	68.0	39.4	29.0	23.0	19.1	16.4	12.8	10.7	5.7
1.65	305	168	98	67.5	39.0	28.8	22.9	19.0	16.3	12.7	10.6	5.6
1.70	283	161	96	67.0	38.6	28.5	22.7	18.8	16.0	12.6	10.5	5.5
1.75	252	155	94	66.5	37.9	28.2	22.4	18.5	15.8	12.5	10.4	5.4
1.80	216	139	90	63.0	36.8	27.6	21.9	18.2	15.5	12.3	10.3	5.3
1.85	183	121	82	59.0	34.9	26.3	20.8	17.2	14.9	11.6	9.7	4.9

Discharge performance at constant power discharge (W per cell) for battery 12MVR110F 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	562	306	182	124.9	73.3	54.5	43.7	36.6	31.7	25.6	21.4	11.2
1.65	525	296	176	123.8	72.6	54.3	43.4	36.5	31.6	25.2	21.2	11.2
1.70	487	282	173	124.5	71.8	53.8	43.1	35.9	31.2	25.0	21.0	10.9
1.75	452	277	170	121.8	70.7	53.1	42.4	35.5	30.6	24.9	20.8	10.7
1.80	386	252	162	116.7	68.7	51.7	41.5	34.8	30.1	24.5	20.5	10.5
1.85	329	217	148	108.7	65.0	49.4	39.6	33.1	28.7	23.1	19.5	9.9