M80-12GT

SPECIFICATIONS

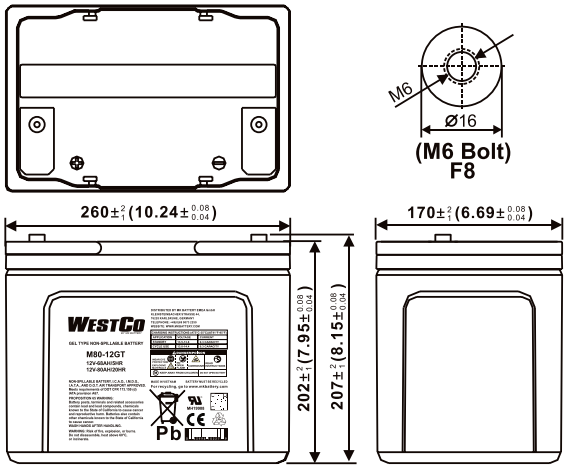
Nominal Voltage (V)	12V
Nominal Capacity	
20 hour rate (4A to 10.50V)	80Ah
5 hour rate (13.6A to 10.20V)	68Ah
1 hour rate (44A to 9.60V)	44Ah
1C (80A to 9.60V)	42.67Ah
Weight	Approx. 24.8kg (54.6Lbs.)
Internal Resistance (at 1KHz)	Approx. 7.5 mΩ
Maximum Discharge Current for 5 seconds :	960A
Operating Temperature Range	
Charge	-15ºC (5ºF) to 40ºC (104ºF)
Discharge	-15ºC (5ºF) to 50ºC (122ºF)
Storage	-15ºC (5ºF) to 40ºC (104ºF)
Charge Retention (shelf life) at 20ºC (68ºF)	
1 month	98%
3 months	94%
6 months	85%
Charging Methods at 25ºC (77ºF)	
Cycle Use :	Charging Voltage 13.8 to 14.4V Coefficient -5.0mv / ºC / cell Maximum Charging Current : 24A
Standby Use :	Float Charging Voltage 13.5 to 13.8V Coefficient -3.0mv / ºC / cell
Case Material :	ABS UL94 HB
Terminal :	F8
Terminal Hardware Torque Value :	
Recommended	M6: 7 N-m (71 kgf-cm)
Maximum Allowable	M6: 10 N-m (102 kgf-cm)

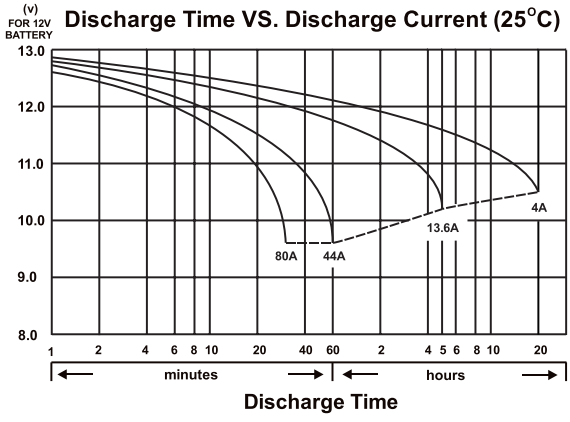
GEL TYPE NON-SPILLABLE BATTERY



DIMENSIONS

mm (inch)





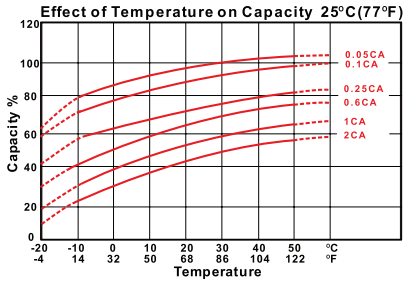
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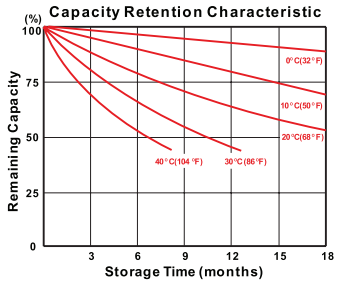
Kleinsteinbacher Strasse 44, 76228, Karlsruhe-Stupferich Germany

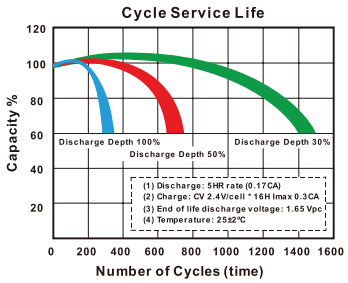
Phone: +49 (0) 69 9073 2250 • **E-mail**: salescentraleurope@mkbattery.com

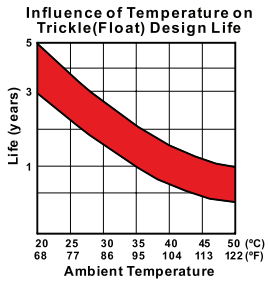
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M80-12GT









Discharge Rates in Watts to Various End Voltages at 25°C (77°F)

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
15	min	263	280	293	301	306	311	315
30	min	159	170	177	181	183	184	185
45	min	116	120	122	123	124	125	126
60	min	87.4	88.1	88.6	88.8	89.0	89.1	89.1
90	min	61.9	62.9	63.8	64.5	65.0	65.3	65.5
120	min	53.0	54.7	55.7	56.1	56.3	56.5	56.6
180	min	36.6	37.2	37.6	37.9	38.1	38.2	38.3
240	min	28.6	29.1	29.6	29.8	30.0	30.1	30.2
300	min	23.4	23.7	23.9	24.1	24.2	24.2	24.3
480	min	15.9	16.2	16.4	16.5	16.6	16.6	16.7
600	min	13.3	13.8	14.3	14.5	14.6	14.7	14.7
1200	min	7.51	7.58	7.63	7.68	7.71	7.73	7.74

- Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
15	min	139	155	165	170	174	177	179
30	min	85.3	89.0	91.9	94.3	96.1	97.6	98.8
45	min	59.9	62.5	64.2	65.3	66.0	66.7	67.4
60	min	45.8	47.4	48.5	49.3	49.9	50.4	50.8
90	min	32.1	33.0	33.7	34.4	34.9	35.3	35.7
120	min	25.8	26.9	27.7	28.1	28.4	28.6	28.8
180	min	18.1	19.0	19.4	19.6	19.8	19.9	20.0
240	min	14.1	14.6	14.9	15.0	15.1	15.2	15.2
300	min	11.8	12.8	13.6	13.8	13.9	13.9	14.0
480	min	8.27	8.61	8.92	8.94	8.95	8.96	8.96
600	min	7.19	8.00	8.00	8.00	8.01	8.01	8.01
1200	min	3.75	4.00	4.01	4.02	4.02	4.03	4.03

All data on the spec. sheet is an average value:
The tolerance range : X<6min(+15%~-15%), 6min≦X<10min(+12%~-12%),10min ≦X < 60min(+8% ~-8%), X≧60min(+5%~-5%)

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