M100-12GT

SPECIFICATIONS

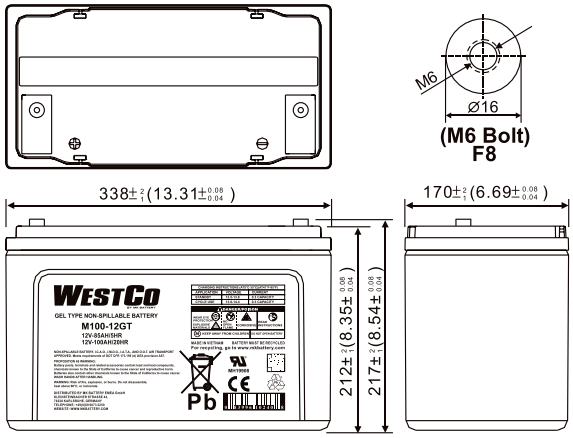
GEL TYPE NON-SPILLABLE BATTERY

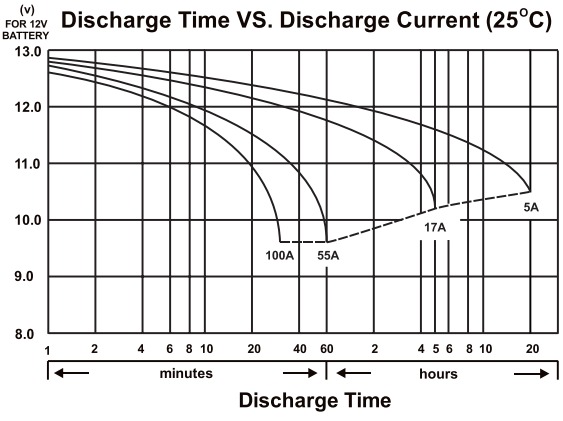
Nominal Voltage (V)	12V
Nominal Capacity	
20 hour rate (5A to 10.50V)	100Ah
5 hour rate (17A to 10.20V)	85Ah
1 hour rate (55A to 9.60V)	55Ah
1C (100A to 9.60V)	53.33Ah
Weight	Approx. 31.8kg (70Lbs.)
Internal Resistance (at 1KHz)	Approx. 4 mΩ
Maximum Discharge Current for 5 seconds :	1200A
Operating Temperature 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 : 30A
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)



DIMENSIONS

mm (inch)





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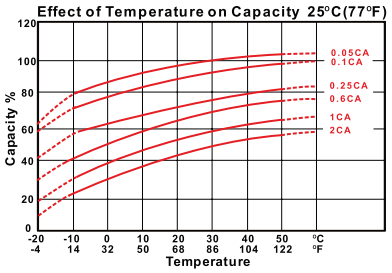
Kleinsteinbacher Strasse 44, 76228, Karlsruhe-Stupferich Germany

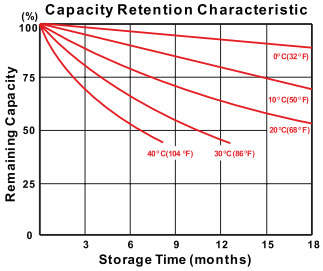
Phone: +49 (0) 69 9073 2250 • **E-mail**: salescentraleurope@mkbattery.com

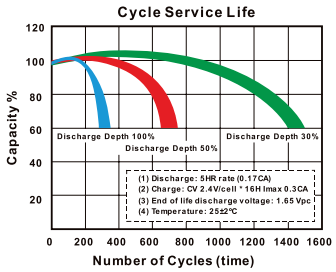
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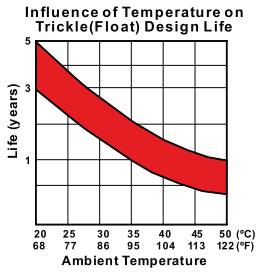
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M100-12GT









- PERFORMANCE DATA

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	319	342	361	374	386	394	398
30	min	198	208	218	226	231	234	236
45	min	151	157	162	167	170	172	173
60	min	134	136	137	138	138	139	139
90	min	88.0	92.5	96.0	98.8	101	102	103
120	min	73.5	77.3	80.0	81.7	82.9	83.9	84.7
180	min	55.0	57.9	59.5	60.4	61.2	61.9	62.5
240	min	38.8	42.8	45.3	46.1	46.9	47.8	48.3
300	min	35.4	37.6	38.8	39.6	40.2	40.7	41.0
480	min	23.0	24.5	25.6	26.4	26.7	26.9	27.0
600	min	18.5	20.0	21.0	21.5	21.9	22.0	22.1
1200	min	10.8	11.1	11.4	11.6	11.7	11.8	11.8

- 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	168	189	203	213	219	225	229
30	min	100	112	120	122	124	125	126
45	min	70.7	75.5	79.7	82.9	85.4	87.2	87.8
60	min	52.2	56.7	60.8	63.3	65.3	67.0	68.4
90	min	38.0	40.9	43.1	44.9	46.2	47.0	47.3
120	min	26.8	31.0	34.5	37.5	39.2	40.2	40.9
180	min	22.0	25.6	28.8	30.9	32.1	32.4	32.6
240	min	19.6	21.1	22.1	22.9	23.4	23.7	23.8
300	min	16.4	17.2	17.9	18.5	19.0	19.3	19.6
480	min	11.0	11.5	11.8	12.0	12.1	12.2	12.3
600	min	9.85	10.0	10.2	10.3	10.4	10.5	10.6
1200	min	5.02	5.10	5.18	5.25	5.30	5.36	5.41

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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