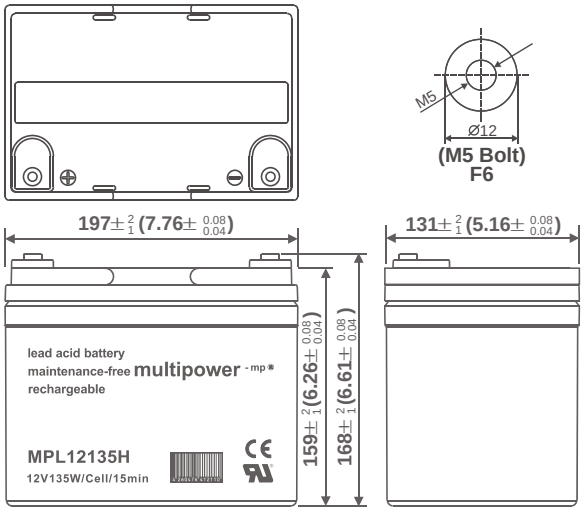
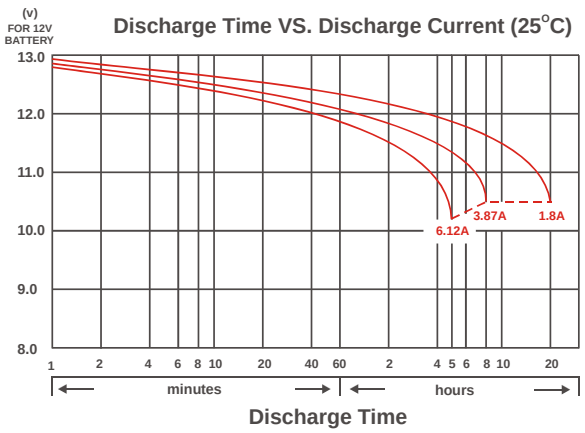
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RECHARGEABLE SEALED LEAD ACID BATTERY SPECIFICATION







MPL12135H

Nominal Voltage(V) 12V

Nominal Power

15 mins rate: 135W/cell to 1.67V/cell

Nominal Capacity

20 hour rate	(1.8A	to	10.50V)	36.0Ah
8 hour rate	(3.87A	to	10.50V)	31.0Ah
5 hour rate	(6.12A	to	10.20V)	30.6Ah

Weight Approx. 11.0kg (24.2Lbs.)

Internal Resistance (at 1KHz) Approx. 8 mΩ

Maximum Discharge Current for

5 seconds: 540A

Charging Methods at 25℃ (77℉)

Maximum Charging Current：	10.8A
Boost Charging Voltage	14.4 to 15.0V
Boost Charge Time	8-9Hr
Float Charging Voltage	13.5 to 13.8V
Coefficient -3.0mV/℃/cell	

Operating Temperature Range

Charge	-15℃ (5℉)	to	40℃ (104℉)
Discharge	-15℃ (5℉)	to	50℃ (122℉)
Storage	-15℃ (5℉)	to	40℃ (104℉)

Charge Retention (shelf life) at 20℃ (68℉)

1 month	98%
3 month	96%
6 month	94%

Case Material ABS UL94 HB

Terminal F6

Description of torque value of hard ware for the terminals:

Recommended torque value	M5: 4 N-m (41kgf-cm)
Maximum allowable torque value	M5: 6 N-m (61kgf-cm)

Design Life

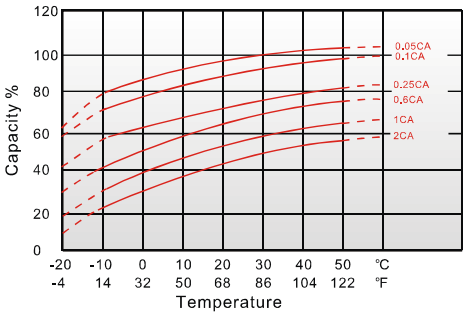
Eurobat (20°C) : 10/12 Years Long Life

JUL 2024

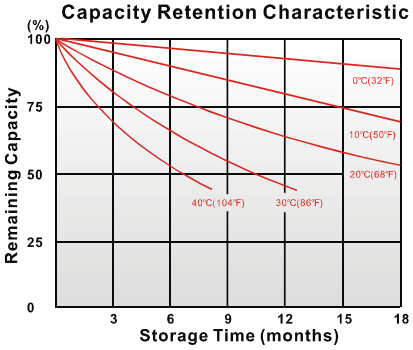
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CHARACTERISTIC & PERFORMANCE DATA

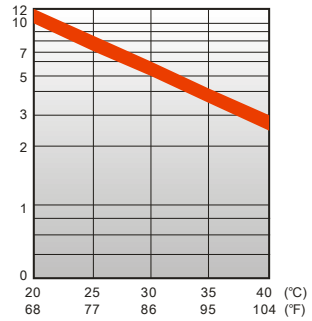
Effect of Temperature on Capacity 25℃(77℉)



Capacity Retention Characteristic



Trickle (or float) Service Life



- PERFORMANCE DATA

Discharge Rates in Watts per Cell to Various End Voltages at 25℃(77℉)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.63V	1.60V
2	min	271	304	321	336	348	354	356	358
4	min	212	243	260	274	280	285	289	292
5	min	209	226	245	258	265	270	274	277
6	min	205	225	240	247	252	256	259	262
8	min	168	180	190	198	212	216	219	222
10	min	144	157	165	168	171	174	177	179
15	min	125	128	131	133	135	137	138	139
20	min	103	107	109	111	113	115	116	117
30	min	76.5	78.3	79.3	79.9	80.3	80.7	81.1	81.4
45	min	57.2	57.9	58.5	58.8	59.1	59.2	59.3	59.3
60	min	43.7	45.0	45.8	46.3	46.6	46.7	46.8	46.9
90	min	33.0	33.7	34.1	34.5	34.8	35.0	35.2	35.3
120	min	22.4	23.6	24.3	24.7	24.9	25.1	25.3	25.3
180	min	15.1	15.7	16.2	16.6	16.9	17.1	17.2	17.3
240	min	11.2	11.7	11.9	12.1	12.3	12.4	12.5	12.5
300	min	9.53	9.89	10.0	10.1	10.2	10.2	10.3	10.4
600	min	4.83	5.00	5.13	5.22	5.28	5.31	5.34	5.37
1200	min	3.22	3.32	3.42	3.44	3.48	3.50	3.52	3.54

- Discharge Rates in Amperes per Battery to Various End Voltages at 25℃(77℉)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.63V	1.60V
2	min	157	171	183	193	203	208	212	217
4	min	130	146	158	166	169	170	171	172
5	min	115	128	134	136	139	140	141	142
6	min	98.2	104	107	109	111	112	113	114
8	min	90.2	96.1	99.2	101	103	105	107	109
10	min	83.2	88.6	91.6	93.7	95.7	97.3	98.3	98.8
15	min	64.2	67.2	71.0	73.8	75.0	75.3	75.6	75.8
20	min	53.2	56.0	58.3	59.0	59.5	59.7	59.9	60.0
30	min	35.9	38.1	39.9	40.3	40.5	40.8	41.0	41.1
45	min	26.8	29.3	31.0	31.3	31.8	32.1	32.3	32.4
60	min	20.0	21.0	21.6	21.9	22.1	22.3	22.4	22.5
90	min	16.3	17.0	17.5	17.7	17.9	18.1	18.2	18.2
120	min	11.8	12.4	12.8	13.0	13.1	13.2	13.3	13.3
180	min	8.38	8.73	9.00	9.22	9.38	9.50	9.58	9.62
240	min	6.78	7.07	7.21	7.30	7.36	7.38	7.39	7.40
300	min	5.69	5.93	6.02	6.06	6.10	6.12	6.14	6.16
600	min	3.22	3.33	3.42	3.48	3.52	3.54	3.55	3.55
1200	min	1.71	1.76	1.80	1.82	1.84	1.84	1.85	1.85

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%)