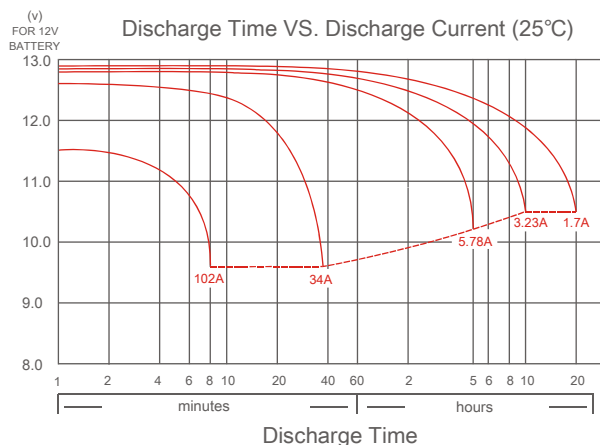
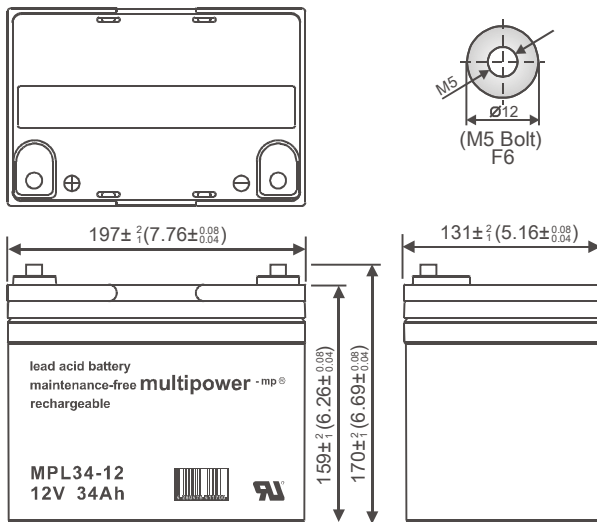


## RECHARGEABLE SEALED LEAD ACID BATTERY

## SPECIFICATION



### MPL34-12

Nominal Voltage(V) 12V

#### Nominal Capacity

20 hour rate	(1.7A	to	10.50V)	34.00Ah
10 hour rate	(3.23A	to	10.50V)	32.30Ah
5 hour rate	(5.78A	to	10.20V)	28.90Ah
1 C	(34A	to	9.60V)	21.53Ah
3 C	(102A	to	9.60V)	13.60Ah

Weight Approx. 10.5kg (23.1Lbs.)

Internal Resistance (at 1KHz) Approx. 11 mΩ

#### Maximum Discharge Current for

5 seconds: 510A

#### Charging Methods at 25°C (77°F)

Maximum Charging Current: 10.2A

Standby use:

Float Charging Voltage 13.5 to 13.8V

Coefficient -3.0mV/°C/cell

#### Operating Temperature Range

Charge -15°C (5°F) to 40°C (104°F)

Discharge -15°C (5°F) to 50°C (122°F)

Storage -15°C (5°F) to 40°C (104°F)

#### Charge Retention (shelf life) at 20°C (68°F)

1 month 92%

3 month 90%

6 month 80%

#### Case Material

ABS UL94 HB

#### Terminal

F6

#### Description of torque value of hard ware for the terminals:

Recommended torque value M5: 5N·m (51kgf·cm)

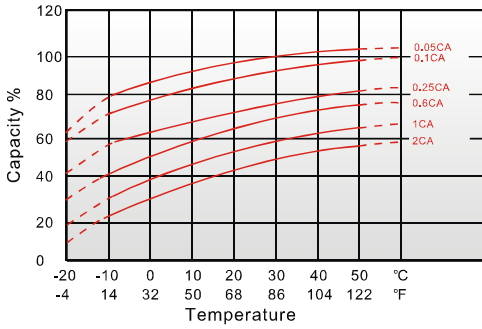
Maximum allowable torque value M5: 6N·m (61kgf·cm)

#### Design Life

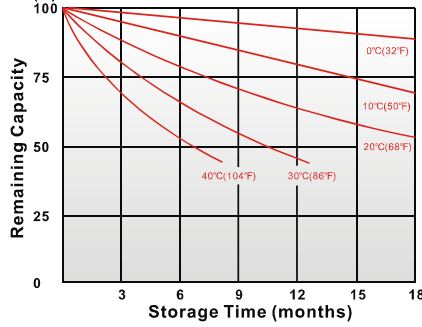
Eurobat (20°C): 10+ years

## CHARACTERISTIC & PERFORMANCE DATA

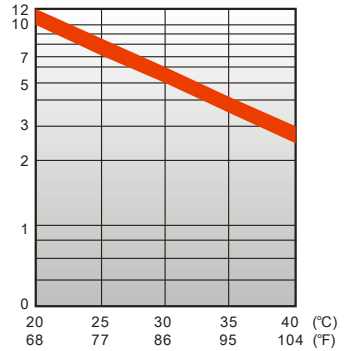
Effect of Temperature on Capacity 25°C(77°F)



Capacity Retention Characteristic



Trickle (or float) Service Life



### - PERFORMANCE DATA

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	121	153	171	176	182	184	190
10	min	83.5	111	129	137	140	142	146
15	min	67.5	89.5	104	110	112	114	118
30	min	38.0	47.5	55.8	59.0	60.3	63.0	66.3
60	min	34.5	36.7	38.5	38.8	39.0	39.2	39.5
120	min	22.3	23.2	23.5	23.7	23.8	24.0	24.2
180	min	14.9	15.8	16.1	16.2	16.4	16.6	17.0
240	min	11.7	12.7	12.9	13.1	13.2	13.4	13.6
300	min	10.4	10.8	11.0	11.1	11.2	11.3	11.4
600	min	6.08	6.47	6.57	6.60	6.63	6.68	6.78
1200	min	3.23	3.30	3.35	3.38	3.40	3.42	3.45

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	85.3	93.4	101	104	106	108	112
10	min	58.5	66.7	73.4	76.3	78.6	80.2	83.5
15	min	48.0	54.7	61.0	62.8	63.2	64.1	65.3
30	min	27.5	31.1	33.9	34.4	34.8	35.6	36.1
60	min	17.0	18.3	19.8	19.9	20.2	20.3	20.5
120	min	10.3	10.8	11.6	11.8	11.9	12.1	12.3
180	min	7.56	7.85	8.42	8.51	8.62	8.78	8.91
240	min	5.68	6.08	6.51	6.57	6.64	6.72	6.89
300	min	5.14	5.21	5.49	5.55	5.61	5.76	5.82
600	min	2.99	3.02	3.08	3.11	3.13	3.16	3.19
1200	min	1.54	1.59	1.65	1.67	1.69	1.71	1.74

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%)