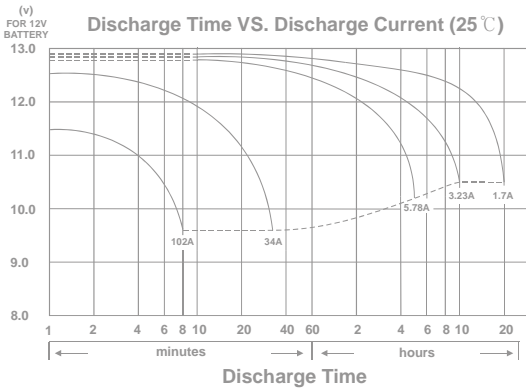
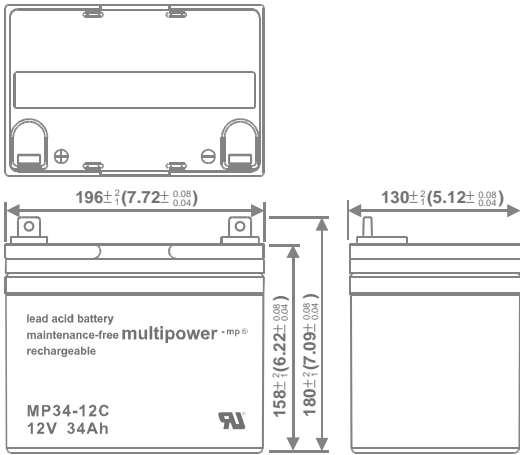
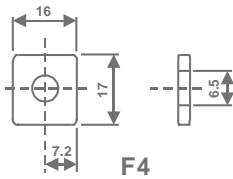


# RECHARGEABLE SEALED LEAD ACID BATTERY

# SPECIFICATION



## MP34-12C

**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)	19.27Ah
3 C	(102A to 9.60V)	13.60Ah

**Weight Approx.** 10.5kg (23.1lbs)

**Internal Resistance (at 1KHz) Approx.** 9.5 mΩ

### Maximum Discharge Current for

**5 seconds:** 510A

### Charging Methods at 25°C (77°F)

Cycle use:	
Charging Voltage	14.70V to 14.80V
Coefficient	-5.0mV/°C/cell
Maximum Charging Current:	10.2A
Standby use:	
Float Charging Voltage	13.50V to 13.80V
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)

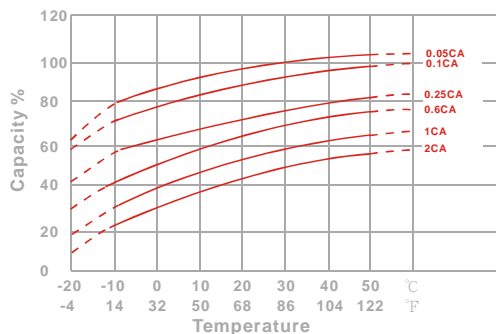
1 month	92%
3 month	90%
6 month	80%

**Case Material** ABS  
(UL94 HB flame retardant case / cover)

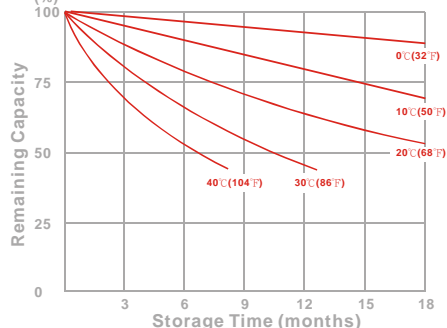
**Terminal** F4

## CHARACTERISTIC & PERFORMANCE DATA

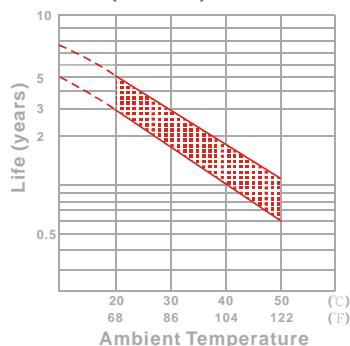
Effect of Temperature on Capacity 25°C(77°F)



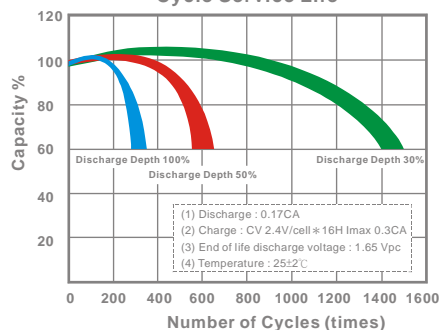
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



### - 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	
5	min	116	158	188	208	215	222	231
10	min	82.3	109	129	141	145	150	155
15	min	67.9	88.2	103	113	115	119	123
30	min	36.4	47.5	55.7	60.8	62.4	64.4	66.6
60	min	30.7	34.8	37.0	38.5	39.0	39.5	40.0
120	min	19.2	21.0	22.5	23.7	24.0	24.5	24.8
180	min	14.6	15.6	16.3	16.7	16.8	17.0	17.2
240	min	12.1	12.8	13.3	13.6	13.8	13.9	14.0
300	min	10.5	11.2	11.6	11.9	12.0	12.1	12.2
600	min	6.27	6.67	6.93	7.07	7.13	7.20	7.27
1200	min	3.32	3.50	3.65	3.72	3.75	3.78	3.82

- 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	
5	min	84.0	104	119	127	130	134	138
10	min	59.2	68.9	74.9	79.1	80.8	83.3	86.4
15	min	46.5	53.8	58.5	61.1	61.9	62.9	64.2
30	min	27.8	31.7	33.2	34.5	34.9	35.4	36.0
60	min	16.9	18.2	19.1	19.8	20.0	20.3	20.6
120	min	10.2	11.0	11.5	11.9	12.0	12.2	12.4
180	min	7.26	7.85	8.31	8.47	8.53	8.62	8.76
240	min	5.68	6.14	6.51	6.69	6.74	6.81	6.91
300	min	5.31	5.59	5.76	5.89	5.94	6.01	6.08
600	min	3.11	3.23	3.34	3.42	3.45	3.48	3.52
1200	min	1.62	1.70	1.75	1.79	1.80	1.82	1.84

All data on the spec. sheet is an average value:

The tolerance range :  $X < 6\text{min}$  (+15%~-15%),  $6\text{min} \leq X < 10\text{min}$  (+12%~-12%),  $10\text{min} \leq X < 60\text{min}$  (+8%~-8%),  $X \geq 60\text{min}$  (+5%~-5%)