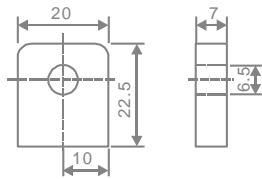


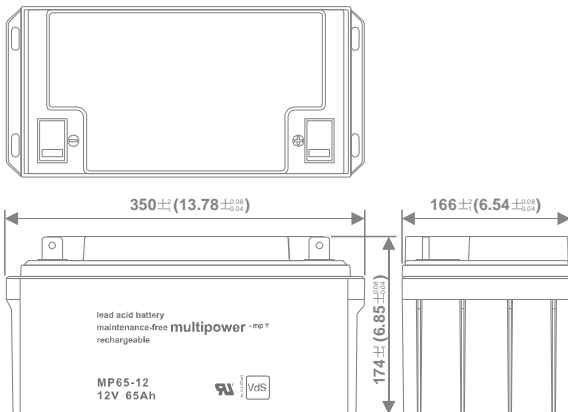
# multipower - mp<sup>®</sup>

## RECHARGEABLE SEALED LEAD ACID BATTERY

## SPECIFICATION

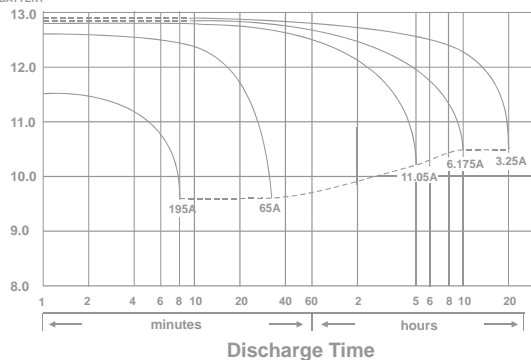


F4



(V)  
FOR 12V  
BATTERY

Discharge Time VS. Discharge Current (25 °C)



### MP65-12

Nominal Voltage (V) 12V

#### Nominal Capacity

20 hour rate	(3.25A	to	10.50V)	65.00Ah
10 hour rate	(6.175A	to	10.50V)	61.75Ah
5 hour rate	(11.05A	to	10.20V)	55.25Ah
1 C	(65A	to	9.60V)	36.83Ah
3 C	(195A	to	9.60V)	26.00Ah

Weight 23.3kg (51.26Lbs.)

Internal Resistance (at 1KHz) Approx. 5 mΩ

#### Maximum Discharge Current for

5 seconds: 780A

#### Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 14.7 to 14.8V

Coefficient -5.0mV/°C/cell

Maximum Charging Current: 19.5A

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 98%

3 month 94%

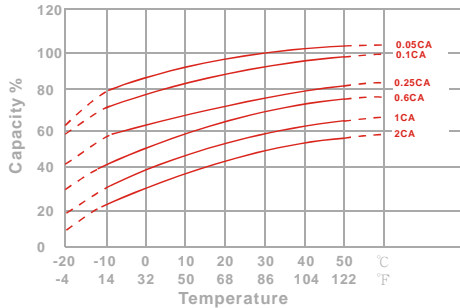
6 month 85%

Case Material ABS UL94 HB

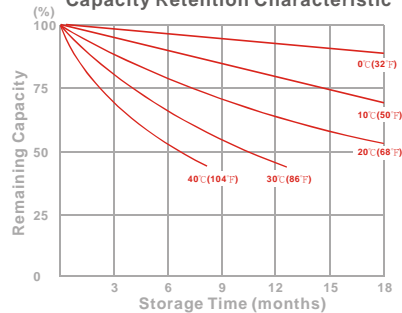
Terminal F4

## CHARACTERISTIC & PERFORMANCE DATA

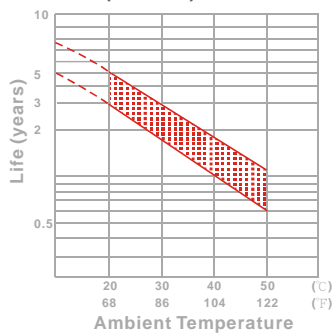
**Effect of Temperature on Capacity 25°C (77°F)**



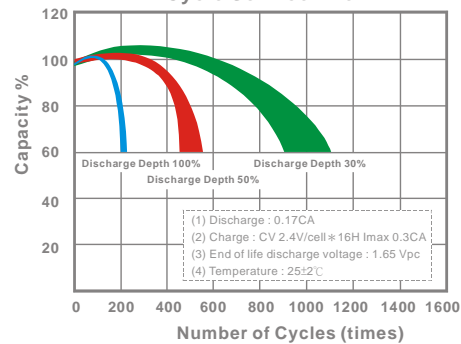
**Capacity Retention Characteristic**



**Trickle (or float) Service Life**



**Cycle Service Life**



**- PERFORMANCE DATA**

**Discharge Rates in Watts pe 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
<b>Time</b>								
5	min	322	461	543	589	601	614	627
10	min	206	296	348	378	385	394	403
15	min	152	209	241	259	264	269	274
30	min	80.7	111	128	138	140	143	146
60	min	72.8	78.2	80.8	82.7	83.5	84.2	85.2
120	min	40.3	44.3	47.0	48.8	49.5	50.2	51.0
180	min	30.2	32.8	35.0	36.5	37.0	37.5	38.2
240	min	26.5	28.0	29.3	30.2	30.5	30.8	31.2
300	min	22.7	23.5	24.0	24.3	24.5	24.8	25.0
600	min	13.3	13.9	14.2	14.4	14.5	14.6	14.8
1200	min	6.97	7.30	7.43	7.55	7.60	7.65	7.73

**- 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
<b>Time</b>								
5	min	172	243	281	300	306	314	336
10	min	108	159	177	191	196	202	210
15	min	81.5	112	119	128	131	135	140
30	min	40.7	55.9	64.5	69.4	70.6	72.1	73.5
60	min	34.9	38.3	40.5	42.2	42.6	43.1	43.8
120	min	19.5	21.6	23.1	24.4	24.8	25.3	25.9
180	min	15.1	16.4	17.3	18.2	18.5	18.8	19.2
240	min	12.6	13.4	14.1	14.6	14.8	15.1	15.4
300	min	10.8	11.5	12.1	12.6	12.8	13.0	13.2
600	min	6.56	6.86	7.00	7.11	7.15	7.20	7.27
1200	min	3.49	3.60	3.67	3.73	3.76	3.79	3.82

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%)