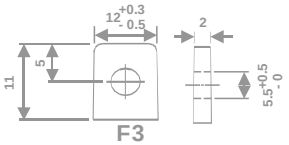
multipower - mp ®

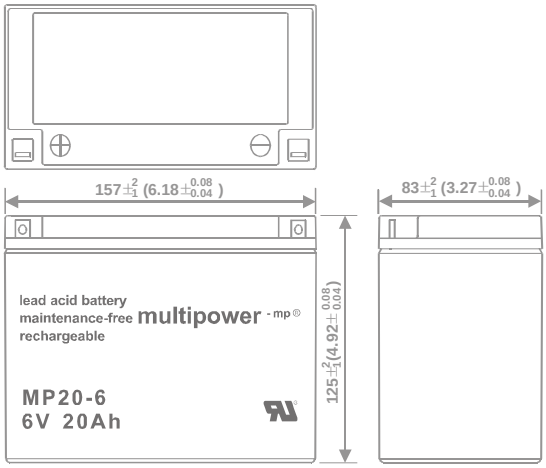
RECHARGEABLE SEALED LEAD ACID BATTERY

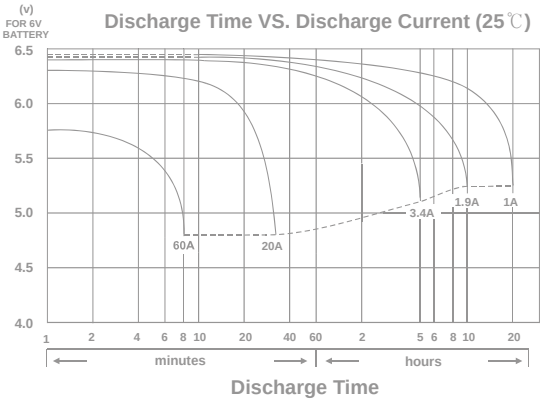
SPECIFICATION





F3
(M5 Bolts)





MP20-6

Nominal Voltage (V) 6V

Nominal Capacity

20 hour rate	(1A	to	5.25V)	20.00Ah
10 hour rate	(1.9A	to	5.25V)	19.00Ah
5 hour rate	(3.4A	to	5.1V)	17.00Ah
1 C	(20A	to	4.8V)	11.33Ah
3 C	(60A	to	4.8V)	8.00Ah

Weight Approx. 3.4kg (7.5lbs)

Internal Resistance (at 1KHz) Approx. 5 mΩ

Maximum Discharge Current for
5 seconds: 300A

Charging Methods at 25℃ (77℉)

Cycle use:
Charging Voltage 7.35V to 7.40V
Coefficient -5.0mv/℃/cell
Maximum Charging Current: 6A
Standby use:
Float Charging Voltage 6.75V to 6.90V
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	92%
3 month	90%
6 month	80%

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

Terminal F3

Nov 2018

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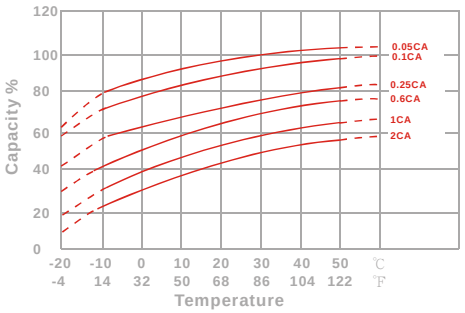
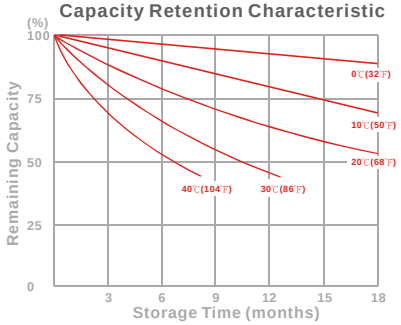
CHARACTERISTIC & PERFORMANCE DATA

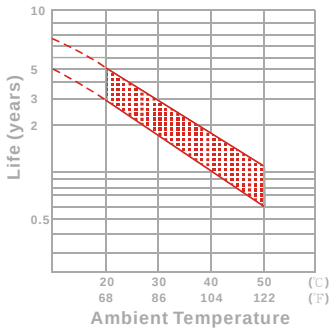
Effect of Temperature on Capacity 25℃(77℉)



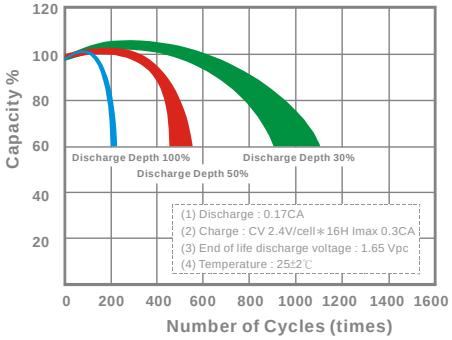
Capacity Retention Characteristic



Trickle (or float) Service Life



Cycle Service Life



- PERFORMANCE DATA

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

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	331	383	418	439	445	451	457
10	min	236	266	289	302	306	310	314
15	min	205	226	241	250	253	256	258
30	min	107	114	122	127	128	129	131
60	min	66.5	69.5	72.0	74.0	74.5	75.5	76.5
120	min	36.6	38.2	39.1	40.4	40.7	41.0	41.5
180	min	28.6	29.7	30.4	31.0	31.2	31.4	31.7
240	min	22.9	23.8	24.4	24.8	25.0	25.2	25.4
300	min	20.0	20.6	21.0	21.3	21.4	21.6	21.7
600	min	11.6	12.0	12.2	12.4	12.5	12.6	12.7
1200	min	6.15	6.35	6.50	6.60	6.65	6.70	6.74

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

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	69.6	75.4	79.1	82.3	83.7	85.1	87.6
10	min	46.7	49.9	52.4	54.6	55.5	56.5	58.2
15	min	35.4	38.1	39.8	41.3	41.9	42.6	43.5
30	min	18.9	20.4	21.5	22.4	22.7	23.1	23.6
60	min	11.1	11.7	12.2	12.6	12.7	12.9	13.1
120	min	6.25	6.47	6.61	6.73	6.77	6.82	6.89
180	min	4.73	4.90	5.00	5.08	5.11	5.15	5.21
240	min	3.88	3.97	4.04	4.09	4.11	4.14	4.17
300	min	3.41	3.48	3.53	3.57	3.58	3.60	3.62
600	min	1.97	2.00	2.02	2.04	2.05	2.06	2.07
1200	min	1.00	1.03	1.05	1.07	1.08	1.09	1.10

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%)