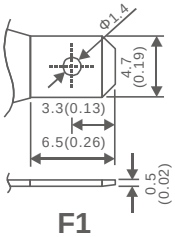
multipower

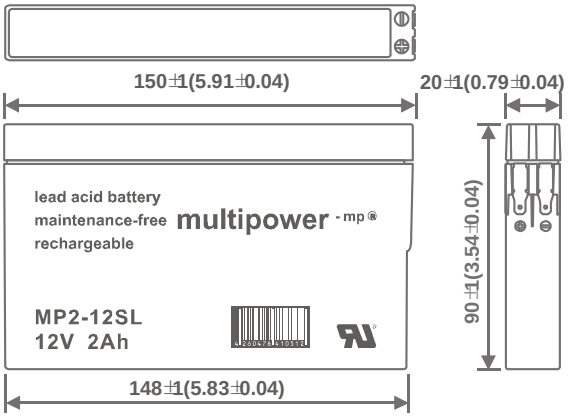
ACCU-24 BATTERIEN & SYSTEME GmbH

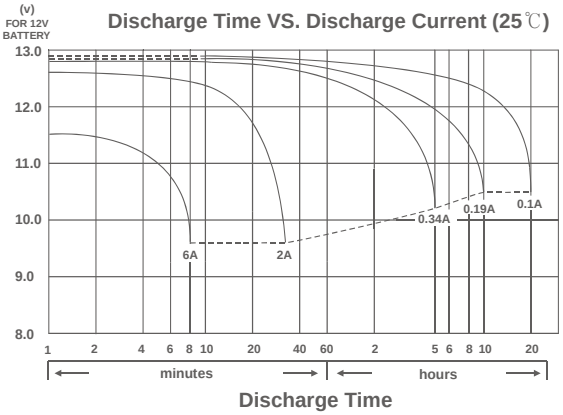
RECHARGEABLE SEALED LEAD ACID BATTERY

SPECIFICATION



F1





MP2-12SL

Nominal Voltage (V) 12V

Nominal Capacity

20 hour rate	(0.1A	to	10.50V)	2.00Ah
10 hour rate	(0.19A	to	10.50V)	1.90Ah
5 hour rate	(0.34A	to	10.20V)	1.70Ah
1 C	(2A	to	9.60V)	1.13Ah
3 C	(6A	to	9.60V)	0.80Ah

Weight Approx. 728g (1.60lbs)

Internal Resistance (at 1KHz) Approx. 57 mΩ

Maximum Discharge Current for 5 seconds: 30A

Charging Methods at 25℃ (77℉)

Cycle use:
Charging Voltage 14.70V to 14.80V
Coefficient -5.0mV/℃/cell
Maximum Charging Current: 0.6A
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℃ (68℉)

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

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

Terminal F1

multipower

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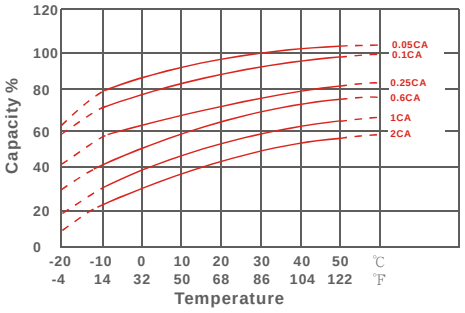
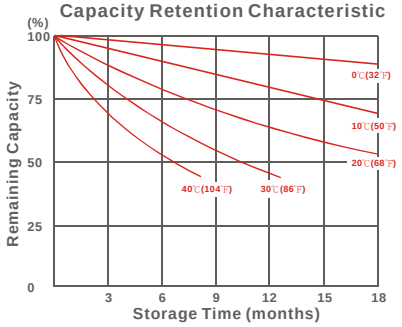
CHARACTERISTIC & PERFORMANCE DATA

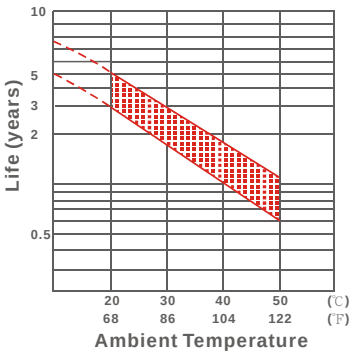
Effect of Temperature on Capacity 25℃(77℉)



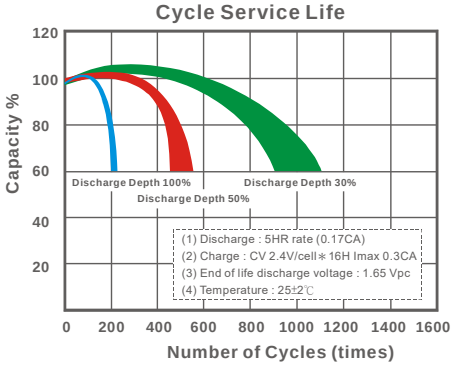
Capacity Retention Characteristic



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	9.30	10.6	11.6	12.4	12.8	13.2	13.7
10	min	6.07	6.98	7.78	8.32	8.53	8.75	9.10
15	min	5.30	5.90	6.25	6.52	6.62	6.73	6.87
30	min	3.45	3.72	3.92	4.07	4.12	4.18	4.25
60	min	2.10	2.22	2.30	2.37	2.38	2.42	2.45
120	min	1.31	1.39	1.42	1.45	1.46	1.47	1.49
180	min	0.922	0.978	1.01	1.03	1.04	1.05	1.06
240	min	0.720	0.762	0.788	0.810	0.818	0.827	0.837
300	min	0.615	0.647	0.668	0.685	0.692	0.698	0.707
600	min	0.357	0.375	0.390	0.400	0.403	0.408	0.413
1200	min	0.187	0.197	0.203	0.208	0.210	0.212	0.213

- 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	5.08	5.84	6.48	7.12	7.36	7.68	8.12
10	min	3.41	4.01	4.33	4.62	4.73	4.86	5.07
15	min	2.59	3.01	3.25	3.44	3.51	3.59	3.68
30	min	1.67	1.86	2.02	2.15	2.21	2.26	2.32
60	min	1.09	1.16	1.20	1.23	1.24	1.25	1.26
120	min	0.667	0.709	0.721	0.730	0.733	0.737	0.742
180	min	0.458	0.487	0.500	0.509	0.512	0.516	0.521
240	min	0.365	0.381	0.392	0.401	0.404	0.408	0.412
300	min	0.316	0.326	0.334	0.340	0.342	0.345	0.348
600	min	0.183	0.189	0.194	0.198	0.200	0.201	0.203
1200	min	0.096	0.099	0.101	0.102	0.102	0.103	0.104

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%)