

Valve Regulated Lead-Acid Rechargeable Battery



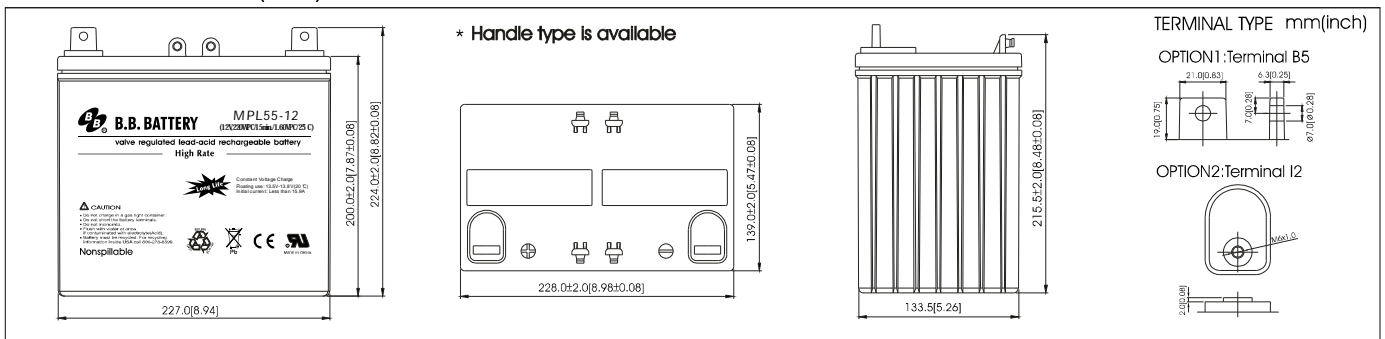
MPL55-12 (12V, 220W/Cell 15min.)

MPL55-12 is designed with multi-plate technology so that it owns unparalleled high energy density. The unique alloy composition imposes our battery with more than 300 cycles at 100% discharge depth and 6-8 years' float life as well. Highly automated production with advanced heat-sealing and through-partition technique ensures reliable performance which is superior to any other battery manufacturer. Since its case is made of polypropylene, the outdoor and indoor usage of this battery are both suitable.

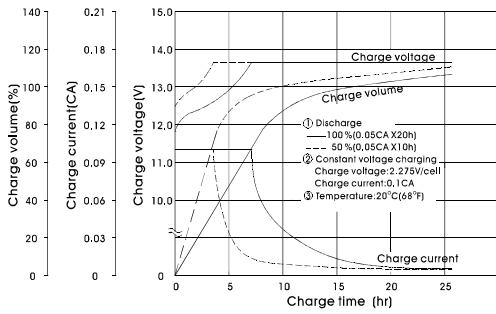
SPECIFICATIONS

Nominal Voltage(V)	12 V
Nominal Capacity(Ah)@25°C	
10 hour rate F.V.1.75V/cell (5300 mA discharge to 10.5 Volts).....	53 Ah
5 hour rate F.V.1.75V/cell (10100 mA discharge to 10.5 Volts).....	50.5Ah
1 hour rate F.V.1.60V/cell (38000 mA discharge to 9.6 Volts).....	38.0Ah
Nominal Power by 15 mins rate F.V.1.60 V/cell(W/cell)	220 W
Terminal Hardware Initial Torque	58 kgf-cm (50 in-lbs; 5.6 N-m)
Approximate Weight	17.8 Kg(39.2 Lb)
Internal Resistance	<6mΩ
Maximum Charging Current	15.9A
Maximum Discharge Current for 5 sec:	550 A
Short Circuit Current @ 0.1 sec:	1500A min.
Cold Cranking Amp @ -18°C	480 A
Operation Temperature	
Charge	0°C(32°F)~50°C(122°F)
Discharge	-20°C(-4°F)~60°C(140°F)
Storage	-20°C(-4°F)~50°C(122°F)
Storage Duration	6 months(20°C)
Container Material and Flammability	PP, UL94 - V0 & HB
Application	Telecom, UPS, Marine, Power station, Cable TV, etc.

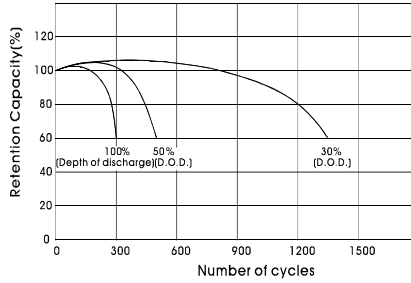
DIMENSIONS mm(inch)



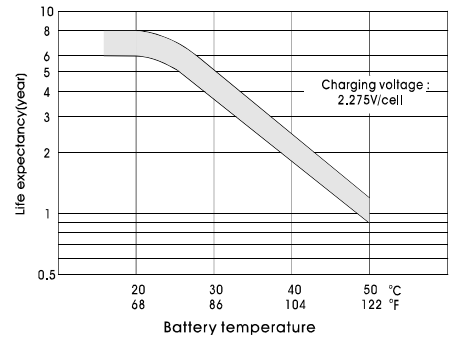
BATTERY CHARGING CHARACTERISTICS
(Typical example of the charge characteristics for the standby use)



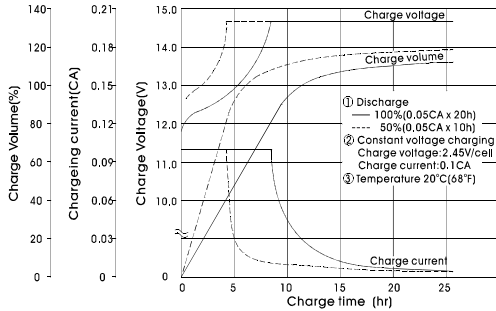
BATTERY LIFE CHARACTERISTICS OF CYCLIC USE
Testing Conditions: Discharge Current: 0.25C Amp(F.V:1.7V/cell)
Charging Current: 0.1C Amp
Charging Volume: 120% Of Discharge Capacity
Ambient Temperature: 20°C (68°F)



EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



BATTERY CHARGING CHARACTERISTICS
(Typical example of the charge characteristics for the cycle use)



CHARGING PROCEDURE

Application	Charging method	Charging Voltage at 20°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1 CA, 20°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (with current restriction)	2.25~2.30	-3	0.3	24	20	0~50 (32~122°F)
For cycle service		2.40~2.50	-4	0.3	16	10	

*Temperature compensation of charging voltage is not needed, when using the batteries within 5°C to 35°C range.

CONSTANT POWER DISCHARGE CHARACTERISTICS @ 25°C(77°F)

Final Voltage	Discharge time									
	5Min	10Min	15Min	20Min	25Min	30Min	40Min	50Min	60Min	90Min
	Battery output power(W)									
10.80V	1905	1400	1163	972	843	740	596	500	433	308
10.50V	2135	1501	1230	1009	868	759	608	510	440	313
10.20V	2277	1563	1270	1035	884	771	616	516	445	316
9.90V	2370	1612	1300	1055	898	780	623	521	449	319
9.60V	2440	1644	1320	1070	910	787	630	526	453	321

CONSTANT CURRENT DISCHARGE CHARACTERISTICS @ 25°C(77°F)

Final Voltage	Discharge time												
	5Min	10Min	15Min	20Min	25Min	30Min	40Min	50Min	1Hr	1.5Hr	2Hr	5Hr	10Hr
	Battery output current(Amperes)												
11.10V	154	111	93	77	66	58	47	39	35.0	24.7	19.8	9.5	4.9
10.80V	176	123	101	83	71	62	50	42	36.4	25.7	20.7	9.9	5.2
10.50V	193	132	106	87	74	64	51	43	37.0	26.2	21.0	10.1	5.3
10.20V	206	138	110	89	76	65	52	43	37.4	26.5	21.2	10.2	5.3
9.90V	215	142	113	91	77	66	52	44	37.7	26.8	21.4	10.2	5.3
9.60V	222	145	115	92	78	67	53	44	38.0	27.0	21.5	10.2	5.3



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