

B.B. Battery

Valve regulated lead-acid battery



EATON

Powering Business Worldwide



B.B. BATTERY

BP Series

For General Use



SPECIFICATIONS

Model	Voltage (V)	Nominal Capacity (Ah)				Weight Kg(lbs)	Terminal				Dimension				MAX Discharge Current For 5 sec (A)	MAX Charge Current (A)			
							Standard		Optional		MM(INCH)								
		20hr	10hr	5 hr	1 hr		Type	Posi	Type	Posi	L	W	H	TH					
BP40-12	12	40.0	38.00	34.00	24.00	14.30(31.53)	B2	7	I1.I2		197(7.76)	165(6.50)	171(6.73)	171(6.73)	600.0	12.00			
BP65-12	12	65.0	61.75	55.25	39.00	22.40(49.38)	B5	15	I2		350(13.78)	166(6.54)	174(6.85)	174(6.85)	650.0	19.50			
BP90-12	12	90.0	85.50	76.50	54.00	30.80(67.90)	B3	15	I2		329(12.95)	172(6.77)	215(8.46)	238(B3)(9.37) 218.5(I2)(8.60)	800.0	27.00			
BP100-12	12	100.0	95.00	85.00	60.00	32.7(72.10)	B3	15	I2		329(12.95)	172(6.77)	215(8.46)	238(B3)(9.37) 218.5(I2)(8.60)	800.0	30.00			
BP120-12	12	120.0	114.0	102.0	72.00	39.50(87.10)	B4	18	I2		407(16.02)	173(6.81)	210(8.27)	239(9.41)	800.0	36.00			
BP160-12	12	160.0	152.0	136.0	96.00	51.20(112.9)	B9	8	I3		483(19.02)	171(6.73)	240(9.45)	240(9.45)	800.0	48.00			
BP200-12	12	200.0	190.0	170.0	120.0	61.50(135.6)	B9	13	I3		522(20.55)	202(7.95)	216(8.50)	240(B9)(9.45) 220(I3)(8.66)	800.0	60.00			
BP230-12	12	230.0	218.5	195.5	138.0	72.50(159.8)	B9	13	I3		522(20.55)	240(9.45)	216(8.50)	240(B9)(9.45) 220(I3)(8.66)	800.0	69.00			

Remark: (1) BP33-12(S).BP35-12(S) Standard Type (2) BP33-12(F).BP35-12(F) Finger Type (3) BP33-12(H).BP35-12(H) Handle Type

BC Series

For General Use



SPECIFICATIONS

Model	Voltage (V)	Nominal Capacity (Ah)				Weight Kg(lbs)	Terminal				Dimension				MAX Discharge Current For 5 sec (A)	MAX Charge Current (A)			
							Standard		Optional		MM(INCH)								
		20hr	10hr	5 hr	1 hr		Type	Posi	Type	Posi	L	W	H	TH					
BC7-12	12	7.0	6.65	5.95	4.20	2.20(4.85)	T2	5	T1		151(5.94)	65(2.56)	94(3.70)	100(3.94)	105.0	2.10			
BC12-12	12	12.0	11.40	10.20	7.20	3.35(7.39)	T2	5			151(5.94)	98(3.86)	94(3.70)	98(3.86)	180.0	3.60			
BC17-12	12	17.0	16.15	14.45	10.20	5.62(12.39)	B1	7	T2.I1	6	181(7.13)	76(2.99)	166(6.54)	166(6.54)	255.0	5.10			
BC28-12	12	28.0	26.60	23.80	16.80	7.90(17.42)	B1	7	T2.I1	6	175(6.89)	166(6.54)	125(4.92)	125(4.92)	420.0	8.40			
BC35-12(S)	12	35.0	33.25	29.75	21.00	9.60(21.16)	B7	8			195(7.68)	129(5.08)	155(6.10)	179(7.05)	350.0	10.50			
BC35-12(H)	12	35.0	33.25	29.75	21.00	9.60(21.16)	B7	8	I2		210(8.27)	129(5.08)	168(5.61)	168(I2)(6.61)	350.0	10.50			
BC35-12(F)	12	35.0	33.25	29.75	21.00	9.60(21.16)	B7	8	I2		195(7.68)	129(5.08)	168(5.61)	168(I2)(6.61)	350.0	10.50			
BC42-12	12	42.0	39.90	35.70	25.20	12.2(26.90)	B2	8	I1.I2		197(7.76)	165(6.50)	171(6.73)	171(6.73)	600.0	12.00			
BC65-12	12	65.0	61.75	55.25	39.00	20.0(44.09)	B5	15	I2		350(13.78)	166(6.54)	174(6.85)	174(6.85)	650.0	19.50			
BC75-12	12	75.0	71.25	63.75	45.00	20.2(44.53)	B5	15	I2		350(13.78)	166(6.54)	174(6.85)	174(6.85)	750.0	22.50			
BC100-12	12	100.0	95.0	85.0	60.0	28.5(62.8)	B3	15	I2		329(12.95)	172(6.77)	215(8.46)	238(B3)(9.37) 218.5(I2)(8.60)	800.0	25.00			
BC120-12	12	120.0	114.0	102.0	72.0	35.0(77.16)	B4	18	I2		407(16.02)	173(6.81)	210(8.27)	239(9.41)	800.0	36.00			
BC160-12	12	160.0	152.0	136.0	96.0	45.0(99.21)	B9	8	I3		483(19.02)	171(6.73)	240(9.45)	240(9.45)	800.0	48.00			
BC200-12	12	200.0	190.0	170.0	120.0	55.2(121.7)	B9	13	I3		522(20.55)	202(7.95)	216(8.50)	240(B9)(9.45) 220(I3)(8.66)	800.0	60.00			
BC230-12	12	230.0	218.5	195.5	138.0	62.4(137.6)	B9	13	I3		522(20.55)	240(9.45)	216(8.50)	240(B9)(9.45) 220(I3)(8.66)	800.0	69.00			

Remark: (1) BC35-12(S) Standard Type (2) BC35-12(F) Finger Type (3) BC35-12(H) Handle Type

HR Series For High Rate Use



SPECIFICATIONS

Model	Voltage (V)	Nominal Capacity (Ah)		Weight Kg(lbs)	Terminal				Dimension				MAX Discharge Current For 5 sec (A)	MAX Charge Current (A)		
		15Min Rate W/Cell	10Hr Rate Ah		Standard		Optional		MM(INCH)							
		Type	Posi		Type	Posi	Type	Posi	L	W	H	TH				
HR9-6	6	36.0	8.0	1.40(3.09)	T2	2	T1		151(5.94)	34(1.34)	94(3.70)	100(3.94)	120	2.40		
HR4-12	12	16.0	3.5	1.40(3.09)	T1	4	T2		134(5.28)	67(2.64)	60(2.36)	66(2.60)	52.5	1.05		
HR5.5-12	12	22.0	5.0	1.80(3.97)	T1	3	T2		90(3.54)	70(2.76)	102(4.02)	106(4.17)	75.0	1.50		
HR5.8-12	12	23.0	5.3	1.88(4.15)	T1	3	T2		90(3.54)	70(2.76)	102(4.02)	106(4.17)	79.5	1.59		
HR6-12	12	24.0	5.5	2.10(4.63)	T1	5	T2		151(5.94)	51(2.01)	94(3.70)	100(3.94)	82.5	1.65		
HR8-12	12	32.0	7.0	2.60(5.73)	T2	5	T1		151(5.94)	65(2.56)	94(3.70)	100(3.94)	105	2.10		
HR9-12	12	36.0	8.0	2.75(6.06)	T2	5	T1,B0		151(5.94)	65(2.56)	94(3.70)	100(3.94)	120	2.40		
HR12-12	12	48.0	11.0	3.95(8.71)	B0	5			151(5.94)	98(3.86)	94(3.70)	106(4.17)		3.30		
HR15-12	12	60.0	13.0	4.20(9.26)	T2	5	T1		151(5.94)	98(3.86)	94(3.70)	98(3.86)	180	3.90		
HR19-12	12	76.0	17.0	5.78(12.74)	B1	7	I1,I2		181(7.13)	76(2.99)	166(6.54)	166(6.54)	255	5.10		
HR22-12	12	88.0	20.0	6.50(14.33)	B1	7	T2,I1	6	181(7.13)	76(2.99)	166(6.54)	166(6.54)	300	6.00		
HR33-12	12	132.0	31.0	10.00(22.05)	B1	7	T2,I1	9	175(6.89)	166(6.54)	125(4.92)	125(4.92)	390	9.30		
HR40-12(S)	12	160.0	38.0	12.10(26.68)	B7	8			195(7.68)	129(5.08)	155(6.10)	179(7.05)	495	11.40		
HR40-12(H)	12	160.0	38.0	12.10(26.68)	B7	8	I2		210(8.27)	129(5.08)	168(6.61)	179(B7)(7.05)	495	11.40		
HR40-12(F)	12	160.0	38.0	12.10(26.68)	B7	8	I2		195(7.68)	129(5.08)	168(6.61)	179(B7)(7.05)	495	11.40		
HR50-12	12	200.0	48.0	15.30(33.74)	B2	7	I1,I2		197(7.76)	165(6.50)	171(6.73)	171(6.73)	600	14.40		
HR75-12	12	300.0	73.0	24.75(54.57)	B5	15	I2		350(13.78)	166(6.54)	174(6.85)	174(6.85)	650	21.90		

Remark: (1) HR40-12(S) Standard Type (2) HR40-12(H) Handle Type (3) HR40-12(F) Finger Type

SH Series For High Rate Use



SPECIFICATIONS

Model	Voltage (V)	Nominal Capacity (Ah)		Weight Kg(lbs)	Terminal				Dimension				MAX Discharge Current For 5 sec (A)	MAX Charge Current (A)		
		15Min Rate W/Cell	20Hr Rate Ah		Standard		Optional		MM(INCH)							
		Type	Posi		Type	Posi	Type	Posi	L	W	H	TH				
SH4.5-12	12	18	4.5	1.53(3.37)	T1	3	T2		90(3.54)	70(2.76)	102(4.02)	106(4.17)	67.5	1.35		
SH4.5-12L	12	18	4.5	1.63(3.59)	T1	5	T2		151(5.94)	51(2.01)	94(3.70)	100(3.94)	67.5	1.35		
SH7-12	12	28	6.3	2.22(4.89)	T2	5	T1		151(5.94)	65(2.56)	94(3.70)	100(3.94)	99.0	2.10		

HRL Series

For High Rate, Long Life Standby Use



SPECIFICATIONS

Model	Voltage (V)	Nominal Capacity (Ah)		Weight Kg(lbs)	Terminal				Dimension				MAX Discharge Current For 5 sec (A)	MAX Charge Current (A)			
		15Min Rate W/Cell	10Hr Rate Ah		Standard		Optional		MM(INCH)								
					Type	Posi	Type	Posi	L	W	H	TH					
HRL5.5-12	12	22.0	5.0	1.80(3.97)	T1	3	T2		90(3.54)	70(2.76)	102(4.02)	106(4.17)	75.0	1.50			
HRL8-12	12	23.0	5.3	1.88(4.15))	T1	3	T2		90(3.54)	70(2.76)	102(4.02)	106(4.17)	79.5	1.59			
HRL8-12	12	32.0	7.0	2.60(5.73)	T2	5	T1		151(5.94)	65(2.56)	94(3.70)	100(3.94)	105	2.10			
HRL9-12	12	36.0	8.0	2.75(6.06)	T2	5	T1,B0		151(5.94)	65(2.56)	94(3.70)	100(3.94)	120	2.40			
HRL15-12	12	60.0	13.0	4.20(9.26)	T2	5	T1		151(5.94)	98(3.86)	94(3.70)	98(3.86)	180	3.90			
HRL22-12	12	88.0	20.0	6.50(14.33)	B1	7	T2,I1	6	181(7.13)	76(2.99)	166(6.54)	166(6.54)	300	6.00			
HRL33-12	12	132.0	31.0	10.00(22.05)	B1	7	T2,I1	9	175(6.89)	166(6.54)	125(4.92)	125(4.92)	390	9.30			
HRL40-12(S)	12	160.0	38.0	12.10(26.68)	B7	8			195(7.68)	129(5.08)	155(6.10)	179(7.05)	495	11.40			
HRL40-12(H)	12	160.0	38.0	12.10(26.68)	B7	8	I2		210(8.27)	129(5.08)	168(6.61)	179(B7)(7.05) 168(I2)(6.61)	495	11.40			
HRL40-12(F)	12	160.0	38.0	12.10(26.68)	B7	8	I2		195(7.68)	129(5.08)	168(6.61)	179(B7)(7.05) 168(I2)(6.61)	495	11.40			
HRL50-12	12	200.0	48.0	15.30(33.74)	B2	7	I1,I2		197(7.76)	165(6.50)	171(6.73)	171(6.73)	600	14.40			
HRL75-12	12	300.0	73.0	24.75(54.57)	B5	15	I2		350(13.78)	166(6.54)	174(6.85)	174(6.85)	650	21.90			
HRL215-12	12	860.0	205.0	66.0(145.50)	I3	13	I4		522(20.55)	202(7.95)	218(8.58)	221.5(8.72)		61.50			

Remark: (1) HRL40-12(S) Standard Type (2) HRL40-12(H) Handle Type (3) HRL40-12(F) Finger Type

EB Series

For Electrical Vehicle Use



SPECIFICATIONS

Model	Voltage (V)	Nominal Capacity (Ah)		Weight Kg(lbs)	Terminal				Dimension				MAX Discharge Current For 5 sec (A)	MAX Charge Current (A)			
		2Hr Rate	20Hr Rate		Standard		Optional		MM(INCH)								
					Type	Posi	Type	Posi	L	W	H	TH					
EB12-12	12	10.0	12.0	4.30(9.48)	T2	5			151(5.94)	98(3.86)	94(3.70)	98(3.86)	180	3.6			
EB14-12N	12	12.0	14.0	4.59(10.12)	T2	5			151(5.94)	98(3.86)	96.5(3.80)	102(4.02)	210	4.2			
EB20-12	12	15.0	20.0	6.45(14.22)	B1	7	I1	6	181(7.13)	76(2.99)	166(6.54)	166(6.54)	300	6.0			
EB24-12	12	20.0	24.0	7.35(16.20)	BE	6			183(7.20)	77(3.03)	170(6.69)	170(6.69)	360	7.2			
EB24-12N	12	20.0	24.0	7.64(16.84)	BE	6			183(7.20)	77(3.03)	170(6.69)	170(6.69)	360	7.2			
EB50-12	12	40.0	50.0	16.5(36.38)	I2	7			197(7.76)	165(6.50)	171(6.73)	171(6.73)	750	15.0			
EB80-12	12	64.0	80.0	25.5(56.22)	I2	8			260(10.24)	168(6.61)	215(8.46)	215(8.46)	800	24.0			

EP Series

For High Cycle Use



SPECIFICATIONS

Model	Voltage (V)	Nominal Capacity (Ah)			Weight Kg(lbs)	Terminal				Dimension				MAX Discharge Current For 5 sec (A)	MAX Charge Current (A)		
		Standard		Optional		MM(INCH)											
		Type	Posi	Type	Posi	L	W	H	TH								
EP7-12	12	7.0	5.95	3.5	2.60(5.73)	T2	5	T1		151(5.94)	65(2.56)	93(3.66)	98(3.86)	105	2.10		
EP12-12	12	12.0	10.20	6.0	4.20(9.26)	T2	5	T1		151(5.94)	98(3.86)	94(3.70)	98(3.86)	180	3.60		
EP17-12	12	17.0	14.45	8.5	6.20(13.67)	B1	7	T2,I1	6	181(7.13)	76(2.99)	166(6.54)	166(6.54)	255	5.10		
EP26-12	12	26.0	22.10	13.0	9.60(21.17)	B1	7	T2,I1	9	175(6.89)	166(6.54)	125(4.92)	125(4.92)	390	7.80		
EP28-12	12	28.0	23.80	14.0	9.70(21.39)	B1	7	T2,I1		175(6.89)	166(6.54)	125(4.92)	125(4.92)	420	8.40		
EP33-12(S)	12	33.0	28.05	16.5	11.50(25.36)	B7	8			195(7.68)	129(5.08)	155(6.10)	179(7.05)	495	9.90		
EP33-12(H)	12	33.0	28.05	16.5	11.50(25.36)	B7	8	I2		210(8.27)	129(5.08)	168(6.61)	179(B7)(7.05) 168(I2) (6.61)	495	9.90		
EP33-12(F)	12	33.0	28.05	16.5	11.50(25.36)	B7	8	I2		195(7.68)	129(5.08)	168(6.61)	179(B7)(7.05) 168(I2) (6.61)	495	9.90		
EP40-12	12	40.0	34.00	20.0	14.60(32.19)	B2	7	I1,I2		197(7.76)	165(6.50)	171(6.73)	171(6.73)	600	12.00		
EP65-12	12	65.0	55.25	32.5	22.80(50.30)	B5	15	I2		350(13.78)	166(6.54)	174(6.85)	174(6.85)	650	19.50		
EP80-12	12	80.0	68.00	40.0	31.20(68.80)	B3	15	I2		329(12.95)	172(6.77)	215(8.46)	238(B3) (9.37) 218.5(I2) (8.60)	800	24.00		
EP100-12	12	100.0	85.00	50.0	40.00(88.20)	B4	18	I2		407(16.02)	173(6.81)	210(8.27)	239(9.41)	800	30.00		

Remark: (1) EP33-12(S) Standard Type (2) EP33-12(H) Handle Type (3) EP33-12(F) Finger Type

EVP Series

For High Power, High Cycle Use



SPECIFICATIONS

Model	Voltage (V)	Nominal Capacity (Ah)			Weight Kg(lbs)	Terminal				Dimension				MAX Discharge Current For 5 sec (A)	MAX Charge Current (A)		
		Standard		Optional		MM(INCH)											
		Type	Posi	Type	Posi	L	W	H	TH								
EVP7-12	12	7.0	5.95	4.37	2.75(6.06)	T2	5	T1		151(5.94)	65(2.56)	94(3.70)	100(3.94)	105	2.10		
EVP12-12	12	12.0	10.20	7.50	4.20(9.26)	T2	5	T1		151(5.94)	98(3.86)	94(3.70)	98(3.86)	180	3.60		
EVP20-12	12	20.0	17.00	12.5	6.60(14.55)	B1	7	T2,I1	6	181(7.13)	76(2.99)	166(6.54)	166(6.54)	300	6.00		
EVP26-12	12	26.0	22.10	16.3	10.00(22.05)	B1	7	T2,I1	9	175(6.89)	166(6.54)	125(4.92)	125(4.92)	390	7.80		
EVP35-12(S)	12	35.0	29.75	21.9	12.50(27.56)	B7	8			195(7.68)	129(5.08)	155(6.10)	179(7.05)	525	10.50		
EVP35-12(H)	12	35.0	29.75	21.9	12.50(27.56)	B7	8	I2		210(8.27)	129(5.08)	168(6.61)	179(B7)(7.05) 168(I2) (6.61)	525	10.50		
EVP35-12(F)	12	35.0	29.75	21.9	12.50(27.56)	B7	8	I2		195(7.68)	129(5.08)	168(6.61)	179(B7)(7.05) 168(I2) (6.61)	525	10.50		
EVP44-12	12	44.0	37.40	27.5	15.50(34.18)	B2	7	I1,I2		197(7.76)	165(6.50)	171(6.73)	171(6.73)	600	13.20		
EVP70-12	12	70.0	59.50	43.8	25.00(55.13)	B5	15	I2		350(13.78)	166(6.54)	174(6.85)	174(6.85)	650	21.00		

Remark: (1) EVP35-12(S) Standard Type (2) EVP35-12(H) Handle Type (3) EVP35-12(F) Finger Type

BPL Series

For Long Life Standby Use



SPECIFICATIONS

Model	Voltage (V)	Nominal Capacity (Ah)			Weight Kg(lbs)	Terminal				Dimension				MAX Discharge Current For 5 sec (A)	MAX Charge Current (A)			
						Standard		Optional		MM(INCH)								
		20hr Rate	5 hr Rate	30 Min Rate		Type	Posi	Type	Posi	L	W	H	TH					
BPL170-6	6	170	144.5	85.0	29.2(64.4)	B9	19	I3		260(10.24)	171(6.73)	220(8.66)	244(9.61)	800	51.0			
BPL210-6	6	210	178.5	105.0	33.2(73.2)	I3	19			244(9.61)	190(7.48)	275(10.83)	275(10.83)	800	63.0			
BPL3.3-12	12	3.3	2.81	1.65	1.35(2.98)	T1	4	T2		134(5.28)	67(2.64)	60(2.36)	66(2.60)	49.5	0.99			
BPL7-12	12	7.0	5.95	3.50	2.60(5.73)	T2	5	T1		151(5.94)	65(2.56)	93(3.66)	98(3.86)	105	2.10			
BPL7.5-12	12	7.5	6.38	3.75	2.70(5.95)	T2	5	T1		151(5.94)	65(2.56)	94(3.70)	100(3.94)	112.5	2.25			
BPL12-12	12	12.0	10.20	6.00	4.10(9.04)	T2	5	T1		151(5.94)	98(3.86)	94(3.70)	98(3.86)	180	3.60			
BPL17-12	12	17.0	14.45	8.50	6.15(13.56)	B1	7	T2.I1	6	181(7.13)	76(2.99)	166(6.54)	166(6.54)	255	5.10			
BPL20-12	12	20.0	17.00	10.00	6.40(14.11)	B1	7	T2.I1	6	181(7.13)	76(2.99)	166(6.54)	166(6.54)	300	6.00			
BPL26-12	12	26.0	22.10	13.00	9.60(21.17)	B1	7	T2.I1	9	175(6.89)	166(6.54)	125(4.92)	125(4.92)	390	7.80			
BPL28-12	12	28.0	23.80	14.00	9.70(21.39)	B1	7	T2.I1	9	175(6.89)	166(6.54)	125(4.92)	125(4.92)	420	8.40			
BPL33-12(S)	12	33.0	28.05	16.50	11.50(25.36)	B7	8			195(7.68)	129(5.08)	155(6.10)	179(7.05)	495	9.90			
BPL33-12(H)	12	33.0	28.05	16.50	11.50(25.36)	B7	8	I2		210(8.27)	129(5.08)	168(6.61)	179(B7)(7.05) 168(I2)(6.61)	495	9.90			
BPL33-12(F)	12	33.0	28.05	16.50	11.50(25.36)	B7	8	I2		195(7.68)	129(5.08)	168(6.61)	179(B7)(7.05) 168(I2)(6.61)	495	9.90			
BPL40-12	12	40.0	34.00	20.00	14.60(32.19)	B2	7	I1.I2		197(7.76)	165(6.50)	171(6.73)	171(6.73)	600	12.00			
BPL65-12	12	65.0	55.25	32.50	22.70(50.05)	B5	15	I2		350(13.78)	166(6.54)	174(6.85)	174(6.85)	650	19.50			
BPL80-12	12	80.0	68.0	40.0	26.8(59.1)	I2	7			260(10.24)	168(6.61)	215(8.46)	215(8.46)	800	24.00			
BPL85-12	12	85.0	72.25	42.50	31.20(68.80)	B3	15	I2		329(12.95)	172(6.77)	215(8.46)	238(B3)(9.37) 218.5(I2)(6.60)	800	25.50			
BPL95-12	12	95.0	80.80	47.50	33.20(73.20)	B3	15	I2		329(12.95)	172(6.77)	215(8.46)	238(B3)(9.37) 218.5(I2)(6.60)	800	28.50			
BPL110-12	12	110.0	93.50	55.00	40.00(88.20)	B4	18	I2		407(16.02)	173(6.81)	210(8.27)	239(9.41)	800	33.00			
BPL150-12	12	150.0	127.5	75.00	51.80(114.2)	B9	8	I3		483(19.02)	171(6.73)	240(9.45)	240(9.45)	800	45.00			
BPL210-12	12	210.0	178.5	105.0	73.20(161.4)	B9	13	I3		522(20.55)	240(9.45)	216(8.50)	240(B9)(9.45) 220(I3)(8.66)	800	63.00			

Remark: (1) BPL33-12(S) Standard Type (2) BPL33-12(H) Handle Type (3) BPL33-12(F) Finger Type

SHR Series

For High Rate Use



SPECIFICATIONS

Model	Voltage (V)	Nominal Capacity (Ah)		Weight Kg(lbs)	Terminal				Dimension				MAX Discharge Current For 5 sec (A)	MAX Charge Current (A)			
		15Min Rate W/Cell	10Hr Rate Ah		Standard		Optional		MM(INCH)								
					Type	Posi	Type	Posi	L	W	H	TH					
SHR10-6	6	40.0		1.41(3.11)	T2	2	T1		151(5.94)	34(1.34)	94(3.70)	100(3.94)	130	2.7			
SHR3.6-12	12	13.0	2.8	0.93(2.05)	T2	5			102(4.02)	48(1.89)	65.5(2.58)	70.5(2.78)	45	1.0			
SHR7-12	12	27.0	5.8	1.84(4.06)	T2	3	T1		90(3.54)	70(2.76)	102(4.02)	106(4.17)	90	1.8			
SHR7.5-12	12	30.0	6.8	2.05(4.25)	T1	5	T2		151(5.94)	51(2.01)	94(3.70)	100(3.94)	105	2.1			
SHR10-12	12	40.0	8.8	2.70(5.95)	T2	5	T1,B0		151(5.94)	65(2.56)	94(3.70)	100(3.94)	130	2.7			
SHR12100W	12		8.8	2.85(6.28)	T2	5	T1,B0		151(5.94)	65(2.56)	94(3.70)	100(3.94)	150	3.0			

MPL Series

For High Rate, Long Life Standby Use



SPECIFICATIONS

Model	Voltage (V)	Nominal Capacity (Ah)			Weight Kg(lbs)	Terminal				Dimension				MAX Charge Current (A)
		15Min Rate W/Cell	10Hr Rate Ah			Standard Type	Optional Posi		Type	MM(INCH)	L	W	H	
						Type	Posi	Type	Posi					
MPL55-12(S)	12	220.0	53.0	17.8(39.25)	B5	8	I2			228(8.98)	139(5.47)	200(7.87)	224(B5) (8.82) 207(2) (8.15) 224(B5) (8.82)	15.90
MPL55-12(H)	12	220.0	53.0	17.8(39.25)	B5	8	I2			228(8.98)	139(5.47)	200(7.87)	207(2) (8.15) 207(2) (8.15)	15.90
MPL80-12(S)	12	320.0	78.0	26.0(57.33)	B5	8	I2			261(10.28)	173(6.81)	200(7.87)	224(B5) (8.82) 207(2) (8.15)	23.40
MPL80-12(H)	12	320.0	78.0	26.0(57.33)	B5	8	I2			261(10.28)	173(6.81)	200(7.87)	224(B5) (8.82) 207(2) (8.15)	23.40
MPL90-12(S)	12	360.0	88.0	29.8(65.71)	B3	8	I2			306(12.05)	173(6.81)	200(7.87)	230(B3) (9.06) 207(2) (8.15)	26.40
MPL90-12(H)	12	360.0	88.0	29.8(65.71)	B3	8	I2			306(12.05)	173(6.81)	200(7.87)	230(B3) (9.06) 207(2) (8.15)	26.40
MPL110-12(S)	12	440.0	108.0	34.3(75.62)	B3	8	I2			330(12.99)	173(6.81)	212(8.35)	241(B3) (9.49) 218(2) (8.59)	32.40
MPL110-12(H)	12	440.0	108.0	34.3(75.62)	B3	8	I2			330(12.99)	173(6.81)	212(8.35)	241(B3) (9.49) 218(2) (8.59)	32.40
MPL135-12	12	540.0	130.0	41.1(90.60)	I3	8				344(13.54)	173(6.81)	270.5(10.65)	277(10.91)	39.00
MPL155-12	12	620.0	150.0	45.5(100.3)	I3	8				344(13.54)	173(6.81)	270.5(10.65)	277(10.91)	45.00

Remark: (1) (S) Standard Type (2) (H) Handle Type

FTB Series

Front Terminal For Telecom Use



SPECIFICATIONS

Model	Voltage (V)	Nominal Capacity (Ah)			Weight Kg(lbs)	Terminal				Dimension				MAX Discharge Current For 5 sec (A)	MAX Charge Current (A)
		10hr Rate	8hr Rate	1hr Rate		Standard Type	Optional Posi		Type	MM(INCH)	L	W	H		
						Type	Posi	Type	Posi						
FTB100-12 (central degassing)	12	102.0	100.0	66.0	36.8(81.13)	I2	17			394(15.51)	110(4.33)	287(11.30)	287(11.30)	800	25
FTB100-12	12	102.0	100.0	66.0	36.8(81.13)	I2	17			394(15.51)	110(4.33)	285(11.22)	285(11.22)	800	25
FTB105-12	12	107.0	105.0	69.3	34.5(76.06)	I2	17			518(20.40)	109(4.29)	230(9.06)	230(9.06)	800	26.3
FTB110-12	12	112.2	110.0	72.9	41.1(90.6)	L1	17			560(22.05)	125(4.92)	230(9.06)	230(9.06)	800	27.5
FTB125-12	12	127.5	125.0	82.5	46.4(102.3)	L1	17			560(22.05)	125(4.92)	255(10.04)	255(10.04)	800	31.3
FTB155-12 (central degassing)	12	159.0	155.0	102.1	55.4(122.1)	I3	17			560(22.05)	125(4.92)	290(11.42)	303(11.93)	800	38.8
FTB155-12	12	159.0	155.0	102.1	55.4(122.1)	I3	17			560(22.05)	125(4.92)	290(11.42)	290(11.42)	800	38.8
FTB180-12 (central degassing)	12	184.6	180.0	117.3	59.0(130.1)	I3	17			560(22.05)	125(4.92)	320(12.60)	333(13.11)	800	45.0
FTB180-12	12	184.6	180.0	117.3	59.0(130.1)	I3	17			560(22.05)	125(4.92)	320(12.60)	320(12.60)	800	45.0

MSB Series

For Telecom Use



SPECIFICATIONS

Model	Voltage (V)	Nominal Capacity (Ah)			Weight Kg(lbs)	Terminal				Dimension					MAX Discharge Current For 5 sec (A)	MAX Charge Current (A)			
						Standard		Optional		MM(INCH)									
		10Hr Rate	3Hr Rate	1Hr Rate		Type	Posi	Type	Posi	L	W	H	TH						
MSB-200	2	200	150	110	16.0(35.3)	B6		I3		173(6.81)	111(4.37)	329(12.95)	357(14.06)	900	50				
MSB-300	2	300	225	165	21.2(46.7)	B6		I3		171(6.73)	151(5.94)	330(12.99)	358(14.09)	1350	75				
MSB-400	2	400	300	220	31.5(69.4)	B6		I3		211(8.31)	176(6.92)	329(12.95)	357(14.06)	1760	100				
MSB-500	2	500	375	275	36.0(79.4)	B6		I3		241(9.49)	172(6.77)	331(13.03)	359(14.13)	2200	125				
MSB-600	2	600	450	330	46.0(101.4)	B6		I3		301(11.86)	175(6.89)	331(13.03)	359(14.13)	2640	150				
MSB-800	2	800	600	440	63.0(138.9)	B6		I3		410(16.14)	175(6.89)	330(12.99)	358(14.09)	3200	200				
MSB-1000	2	1000	750	550	72.0(158.7)	B6		I3		475(18.70)	175(6.89)	328(12.91)	356(14.02)	4000	250				
MSB-1500	2	1500	1125	825	128.0(282.2)	B6				400(15.75)	350(13.78)	341(13.43)	369(14.53)	6000	375				
MSB-2000	2	2000	1500	1100	153.0(337.3)	B6				490(19.29)	350(13.78)	343(13.50)	371(14.61)	7000	500				
MSB-3000	2	3000	2250	1650	215.0(473.9)	B6				710(27.95)	353(13.90)	341(13.43)	369(14.53)	9000	750				

MSU Series

For Telecom Use



SPECIFICATIONS

Model	Voltage (V)	Nominal Capacity (Ah)			Weight Kg(lbs)	Terminal				Dimension					MAX Discharge Current For 5 sec (A)	MAX Charge Current (A)			
						Standard		Optional		MM(INCH)									
		10Hr Rate	3Hr Rate	1Hr Rate		Type	Posi	Type	Posi	L	W	H	TH						
MSU-200	2	200	150	110	13.5(29.8)	B6		I3		173(6.81)	111(4.37)	329(12.95)	357(14.06)	900	50				
MSU-300	2	300	225	165	19.0(41.9)	B6		I3		171(6.73)	151(5.94)	330(12.99)	358(14.09)	1350	75				
MSU-400	2	400	300	220	24.5(54.0)	B6		I3		174(6.85)	174(6.85)	330(12.99)	360(14.17)	1760	100				
MSU-500	2	500	375	275	30.8(67.9)	B6		I3		211(8.31)	176(6.92)	329(12.95)	357(14.06)	2200	125				
MSU-600	2	600	450	330	36.3(80.0)	B6		I3		241(9.49)	172(6.77)	331(13.03)	359(14.13)	2640	150				
MSU-800	2	800	600	440	45.0(99.2)	B6		I3		301(11.86)	175(6.89)	331(13.03)	359(14.13)	3200	200				
MSU-1000	2	1000	750	550	60.5(133.4)	B6		I3		410(15.79)	175(6.89)	330(12.99)	358(14.09)	4000	250				
MSU-1200	2	1200	900	660	71.5(157.6)	B6		I3		475(18.70)	175(6.89)	328(12.91)	356(14.02)	4800	300				
MSU-2000	2	2000	1500	1100	131.0(288.8)	B6				400(15.75)	350(13.78)	341(13.43)	369(14.53)	7000	500				
MSU-3000	2	3000	2250	1650	190.0(418.9)	B6				710(27.95)	353(13.90)	341(13.43)	369(14.53)	9000	750				

BPX Series

For General Use



SPECIFICATIONS

Model	Voltage (V)	Nominal Capacity (Ah)				Weight Kg(lbs)	Terminal				Dimension				MAX Discharge Current For 5 sec (A)	MAX Charge Current (A)
		20hr	10hr	5 hr	1 hr		Standard Type	Optional Posi	MM(INCH)	L	W	H	TH			
							Type	Posi								
BPX7-12	12	7.0	6.65	5.95	4.20	2.35(5.18)	T2	5	T1	151(5.94)	65(2.56)	93(3.66)	98(3.86)	105.0	2.10	

RT Series

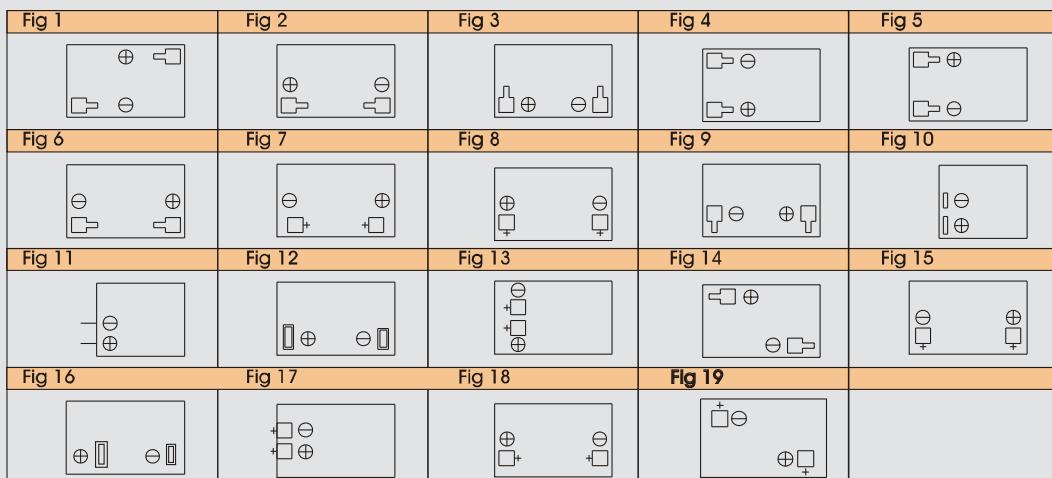
For Recess Terminal Use



SPECIFICATIONS

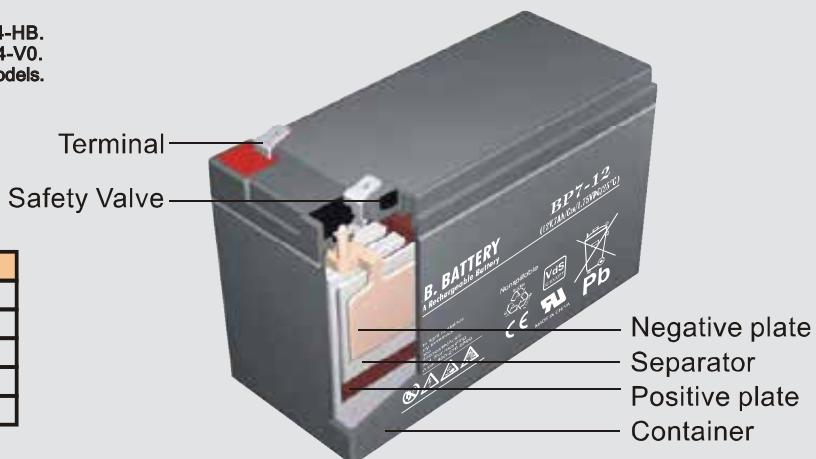
Model	Voltage (V)	Nominal Capacity (Ah)				Weight Kg(lbs)	Terminal				Dimension				MAX Discharge Current For 5 sec (A)	MAX Charge Current (A)
		20hr	10hr	5 hr	1 hr		Standard Type	Optional Posi	MM(INCH)	L	W	H	TH			
							Type	Posi								
BP4.5-12RT	12	4.5	4.28	3.83	2.70	1.78(3.92)	RT	12		16	140(5.51)	48(1.89)	102(4.02)	104(4.09)	67.5	1.35
BP5.5-12RT	12	5.5	5.23	4.68	3.30	1.85(4.08)	RT	12		16	140(5.51)	48(1.89)	102(4.02)	104(4.09)	82.5	1.65
BP7-12RT	12	7.0	6.65	5.95	4.20	2.40(5.29)	RT	12		16	140(5.51)	48(1.89)	126(4.96)	128(5.04)	105.0	2.10

TERMINAL POSITION



A SAMPLE OF CONSTRUCTION OF B.B. BATTERY

- * Standard case material is flame retardant to UL94-HB.
- * FR option case material is flame retardant to UL94-V0.
- * Flame Retardant (V-0) container is available for all models.



Components \ Type	Retainer type
Plate	Paste type
Container, Cover	ABS or PP
Separator	Glass fiber
Electrolyte	Sulfuric Acid
Safety Valve	Rubber

TERMINAL TYPE mm (inch)

T1		T2		T3	
RT		H		L1	
I1		I2		I3	
B0		B1		B2	
B3		B4		B5	
B6		B7		B8	
B9		BE		TP	

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