TECH POWER INDUSTRY

VRLA Rechargeable Battery

TP6-1.3

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

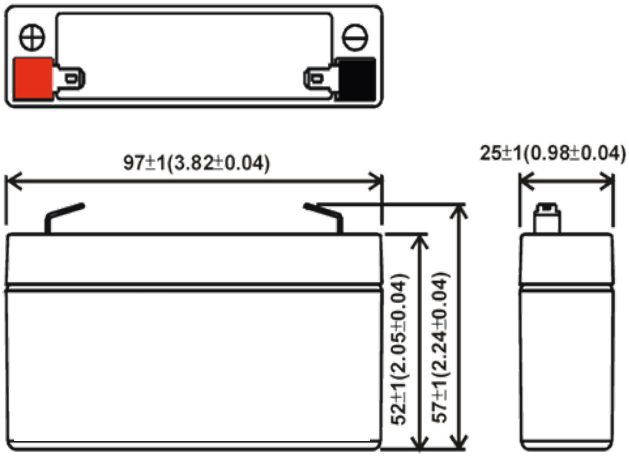
TP6-1.3 is a general purpose battery with 3~5 years service life under normal float charge at 25°C. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

SPECIFICATIOIN

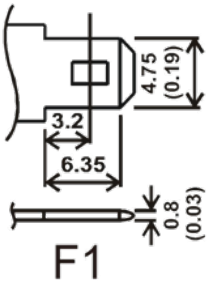
Cell per unit	3	**Ambient temperature**	
Nominal Voltage (V)	6	Charge	0°C(32°F) to 40°C (104°F)
Nominal Capacity (Ah)	1.3Ah @ 20hour rate F.V(1.75/Cell)	Discharge	-15°C(5°F) to 50°C (122°F)
Weight	Approx. 0.33 kg(0.73Lbs.)	Storage	-15°C(5°F) to 40°C (104°C)
Internal Resistance (1KHz)	42mΩ	**Max charge Current**	
Max Discharge Current (5s)	19.5A (5s)	**Cycle use :**	Max charge current：0.39A
Battery Life :	Stand by : 3~5 years		Charge voltage: 7.2 to 7.5V
Terminal Type	F1	**Stand by :**	Charge voltage: 6.75 to 6.90V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	97±1	25±1	52±1	57±1
Unit: inch	3.82±0.04	0.98±0.04	2.05±0.04	2.24±0.04



mm(inch)



Constant current discharge characteristics Unit:A(25°C 77°F)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	5.41	2.64	1.52	0.90	0.47	0.33	0.22	0.15	0.13	0.07
1.67V	4.95	2.55	1.50	0.89	0.46	0.33	0.22	0.15	0.12	0.07
1.70V	4.68	2.50	1.49	0.89	0.46	0.33	0.22	0.14	0.12	0.07
1.75V	4.23	2.37	1.46	0.87	0.46	0.32	0.22	0.14	0.12	0.06
1.80V	3.78	2.23	1.43	0.86	0.45	0.32	0.22	0.14	0.12	0.06
Constant power discharge characteristics Unit:W(25°C 77°F)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	28.0	14.83	9.15	5.41	2.82	1.99	1.59	0.90	0.77	0.43
1.67V	27.3	14.63	9.00	5.39	2.80	1.99	1.58	0.90	0.76	0.41
1.70V	26.8	14.20	8.94	5.38	2.79	1.99	1.58	0.89	0.75	0.41
1.75V	24.2	13.54	8.74	5.29	2.75	1.97	1.57	0.89	0.74	0.39
1.80V	21.6	12.79	8.52	5.20	2.71	1.96	1.57	0.89	0.73	0.38

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TECH POWER INDUSTRY

VRLA Rechargeable Battery

TP6-3

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

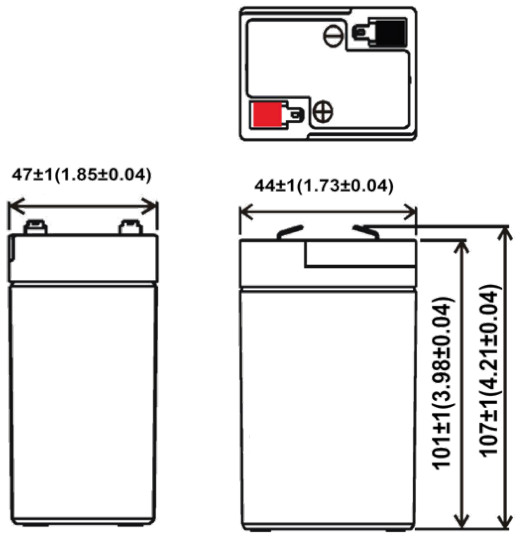
TP6-3 is a general purpose battery with 3~5 years service life under normal float charge at 25°C. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

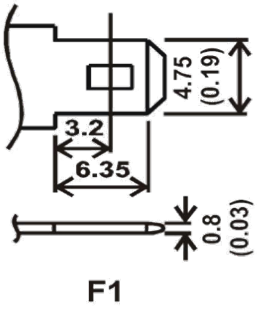
SPECIFICATIOIN

Cell per unit	3	**Ambient temperature**	
Nominal Voltage (V)	6	Charge	0℃(32℉) to 40℃ (104℉)
Nominal Capacity (Ah)	2Ah @ 20hour rate F.V(1.75/Cell)	Discharge	-15℃(5℉) to 50℃ (122℉)
Weight	Approx. 0.47 kg(1.04Lbs.)	Storage	-15℃(5℉) to 40℃ (104℉)
Internal Resistance (1KHz)	50mΩ	**Max charge Current**	
Max Discharge Current (5s)	30A (5s)	**Cycle use :**	Max charge current：0.6A
Battery Life :	Stand by : 3~5 years		Charge voltage: 7.2 to 7.5V
Terminal Type	F1	**Stand by :**	Charge voltage: 6.75 to 6.90V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	44±1	47±1	101±1	107±1
Unit: inch	1.73±0.04	0.98±0.04	2.05±0.04	4.21±0.04





Constant current discharge characteristics Unit:A(25℃77℉)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	7.720	3.880	2.300	1.260	0.730	0.560	0.370	0.242	0.201	0.105
1.67V	7.000	3.630	2.180	1.240	0.700	0.550	0.358	0.240	0.199	0.104
1.70V	6.350	3.410	2.070	1.220	0.690	0.520	0.349	0.236	0.195	0.103
1.75V	5.760	3.200	1.980	1.180	0.670	0.510	0.340	0.233	0.191	0.101
1.80V	5.110	2.930	1.910	1.130	0.650	0.500	0.331	0.229	0.186	0.100

Constant power discharge characteristics Unit:W(25℃77℉)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	38.400	20.370	12.570	7.080	4.170	3.240	2.130	1.419	1.185	0.618
1.67V	35.640	19.380	12.000	7.050	3.990	3.150	2.070	1.410	1.173	0.615
1.70V	32.790	18.360	11.460	6.930	3.960	3.030	2.040	1.392	1.152	0.609
1.75V	30.600	17.430	11.070	6.750	3.870	2.940	1.980	1.374	1.131	0.600
1.80V	27.750	16.170	10.770	6.480	3.750	2.910	1.950	1.353	1.104	0.594

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VRLA Rechargeable Battery

TP6-4.5

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

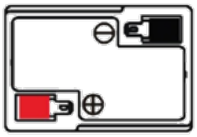
TP6-4.5 is a general purpose battery with 3~5 years service life under normal float charge at 25℃. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

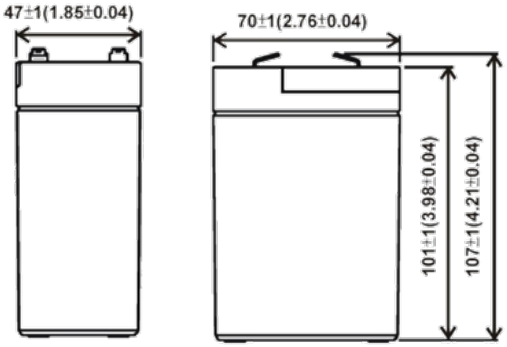
SPECIFICATIOIN

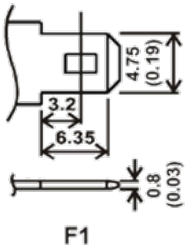
Cell per unit	3	**Ambient temperature**	
Nominal Voltage (V)	6	Charge	0℃(32℉) to 40℃ (104℉)
Nominal Capacity (Ah)	4.5Ah @ 20hour rate F.V(1.75/Cell)	Discharge	-15℃(5℉) to 50℃ (122℃)
Weight	Approx.0.82 kg(1.81bs.)	Storage	-15℃(5℉) to 40℃ (104)
Internal Resistance (1KHz)	28mΩ	**Max charge Current**	
Max Discharge Current (5s)	75A (5s)	**Cycle use :**	Max charge current：1.35A
Battery Life :	Stand by : 3~5 years		Charge voltage: 7.2 to 7.5V
Terminal Type	F1/F6/WL	**Stand by :**	Charge voltage: 6.75 to 6.90V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

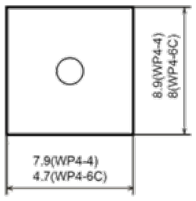
DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	70±1	47±1	101±1	107±1
Unit: inch	2.76±0.04	1.85±0.04	3.98±0.04	4.21±0.04



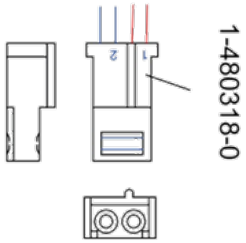




F1



F6



WL

Constant current discharge characteristics Unit:A(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	17.70	9.10	5.20	3.12	1.63	1.15	0.78	0.52	0.45	0.25
1.67V	17.10	8.80	5.20	3.11	1.62	1.15	0.77	0.51	0.44	0.24
1.70V	16.20	8.60	5.16	3.08	1.61	1.14	0.77	0.51	0.44	0.23
1.75V	14.60	8.10	5.00	3.04	1.59	1.14	0.76	0.51	0.43	0.23
1.80V	13.00	7.70	4.90	2.99	1.57	1.13	0.76	0.51	0.42	0.22

Constant power discharge characteristics Unit:W(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	105	51.3	31.6	18.7	9.76	6.90	5.52	3.12	2.66	1.49
1.67V	98.6	50.6	31.1	18.6	9.70	6.89	5.48	3.10	2.63	1.43
1.70V	97.7	49.4	30.9	18.6	9.67	6.87	5.46	3.09	2.60	1.40
1.75V	91.8	46.8	30.2	18.3	9.52	6.83	5.45	3.09	2.58	1.35
1.80V	81.8	44.2	29.5	18.0	9.39	6.78	5.44	3.07	2.54	1.31

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TECH POWER INDUSTRY

VRLA Rechargeable Battery

TP6-7

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

TP6-7 is a general purpose battery with 3~5 years service life under normal float charge at 25°C. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

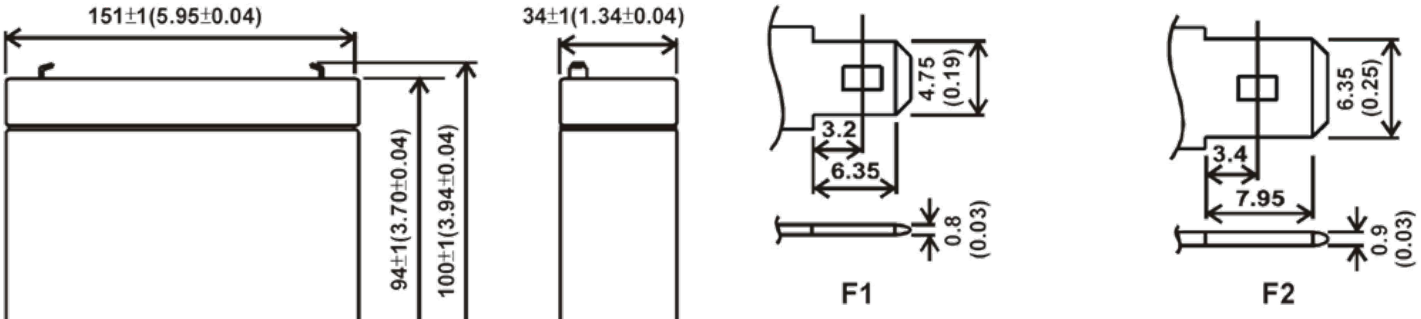
SPECIFICATIOIN

Cell per unit	3	**Ambient temperature**	
Nominal Voltage (V)	6	Charge	0°C(32°F) to 40°C (104°F)
Nominal Capacity (Ah)	7Ah @ 20hour rate F.V(1.75/Cell)	Discharge	-15°C(5°F) to 50°C (122°F)
Weight	Approx.1.20 kg(2.64bs.)	Storage	-15°C(5°F) to 40°C (104)
Internal Resistance (1KHz)	12mΩ	**Max charge Current**	
Max Discharge Current (5s)	135A (5s)	**Cycle use :**	Max charge current：2.1A
Battery Life :	Stand by : 3~5 years		Charge voltage: 7.2 to 7.5V
Terminal Type	F1/F2	**Stand by :**	Charge voltage: 6.75 to 6.90V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	151±1	34±1	94±1	100±1
Unit: inch	5.94±0.04	1.34±0.04	3.70±0.04	3.94±0.04

mm(inch)



Constant current discharge characteristics Unit:A(25°C77°F)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	35.2	14.1	7.83	4.20	2.58	2.00	1.29	0.83	0.71	0.39
1.67V	33.1	13.4	7.48	4.15	2.52	1.89	1.25	0.82	0.70	0.39
1.70V	32.4	13.2	6.59	4.00	2.47	1.75	1.22	0.82	0.68	0.36
1.75V	30.0	12.8	6.08	3.78	2.44	1.68	1.19	0.82	0.67	0.36
1.80V	28.2	11.7	5.60	3.22	2.40	1.59	1.18	0.81	0.67	0.35

Constant power discharge characteristics Unit:W(25°C77°F)										
F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	198.3	84.0	48.2	25.3	14.59	10.65	7.22	4.32	4.02	2.13
1.67V	182.9	82.5	48.0	25.0	14.45	10.59	7.22	4.32	4.02	2.13
1.70V	175.7	80.7	47.4	24.7	14.30	10.50	7.20	4.30	3.99	2.10
1.75V	173.7	78.3	46.2	24.2	14.07	10.40	7.14	4.26	3.96	2.10
1.80V	161	74.6	44.3	23.3	13.65	10.20	7.02	4.21	3.93	2.07

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TECH POWER INDUSTRY

VRLA Rechargeable Battery

TP6-12

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

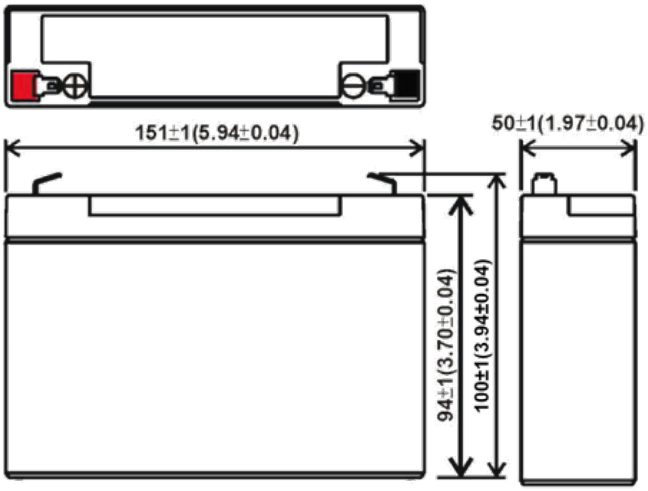
TP6-12 is a general purpose battery with 3~5 years service life under normal float charge at 25℃. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

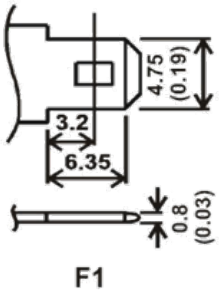
SPECIFICATIOIN

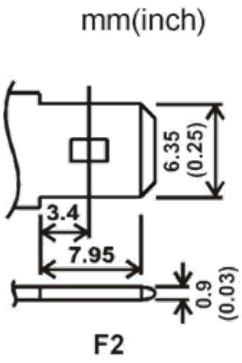
Cell per unit	3	**Ambient temperature**	
Nominal Voltage (V)	6	Charge 0℃(32℉) to 40℃ (104℉)	
Nominal Capacity (Ah)	12Ah @ 20hour rate F.V(1.75/Cell)	Discharge -15 (5) to 50 (122)	
Weight	Approx.1.96 kg(4.32Lbs.)	Storage -15 (5) to 40 (104)	
Internal Resistance (1KHz)	10mΩ	**Max charge Current**	
Max Discharge Current (5s)	204A (5s)	**Cycle use :**	Max charge current：3.6A
Battery Life :	Stand by : 3~5 years		Charge voltage: 7.2V to 7.5V
Terminal Type	F1/F2	**Stand by :**	Charge voltage: 6.75V to 6.9V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	151±1	50±1	94±1	100±1
Unit: inch	5.94±0.04	1.97±0.04	3.70±0.04	3.94±0.04







Constant current discharge characteristics Unit:A(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	52.8	25.0	14.0	7.85	4.34	3.04	2.065	1.482	1.150	0.606
1.65V	51.1	24.6	13.9	7.78	4.30	3.02	2.058	1.480	1.149	0.605
1.70V	48.8	24.0	13.7	7.70	4.26	3.00	2.015	1.475	1.146	0.603
1.75V	46.0	23.3	13.4	7.56	4.22	3.00	2.040	1.465	1.140	0.600
1.80V	39.0	22.3	12.9	7.32	4.17	2.92	2.011	1.460	1.124	0.593

Constant power discharge characteristics Unit:W(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	288.0	144.0	82.8	46.8	25.0	18.2	12.3	8.23	6.90	3.66
1.65V	277.8	141.3	82.2	46.5	24.8	18.1	12.3	8.16	6.90	3.63
1.70V	267.0	138.0	81.0	45.9	24.7	18.0	12.3	8.15	6.87	3.63
1.75V	251.4	134.1	79.2	45.0	24.3	18.0	12.2	8.13	6.84	3.60
1.80V	217.0	126.0	76.2	43.8	24.0	17.4	12.1	8.10	6.75	3.60

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TECH POWER INDUSTRY

VRLA Rechargeable Battery

TP12-1.3

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FEATURES

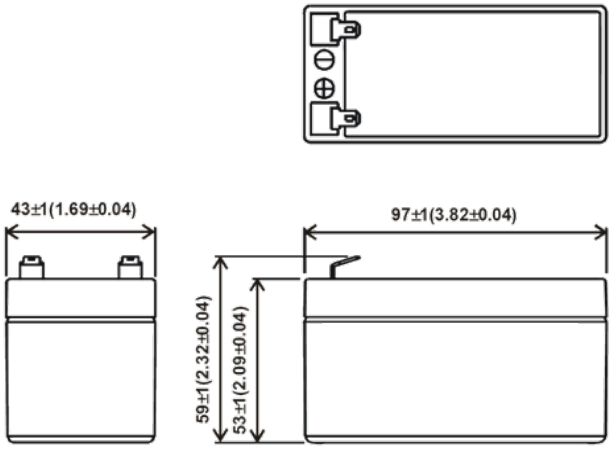
TP12-1.3 is a general purpose battery with 3~5 years service life under normal float charge at 25°C. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

SPECIFICATIOIN

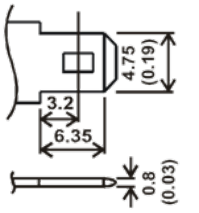
Cell per unit	6	**Ambient temperature**	
Nominal Voltage (V)	12	Charge	0°C(32°F) to 40°C (104°F)
Nominal Capacity (Ah)	1.3Ah @ 20hour rate F.V(1.75/Cell)	Discharge	-15°C(5°F) to 50°C (122°F)
Weight	Approx.0.62 kg(1.37Lbs.)	Storage	-15°C(5°F) to 40°C (104°F)
Internal Resistance (1KHz)	95mΩ	**Max charge Current**	
Max Discharge Current (5s)	19.5A (5s)	**Cycle use :**	Max charge current：0.39A
Battery Life :	Stand by : 3~5 years		Charge voltage: 14.4 to 15.0V
Terminal Type	F1	**Stand by :**	Charge voltage: 13.50 to 13.80V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	97±1	43±1	53±1	59±1
Unit: inch	3.82±0.04	1.69±0.04	2.90±0.04	2.32±0.04



mm(inch)



F1
(FASTON TAB NO. 187)

Constant current discharge characteristics Unit:A(25°C77°F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	5.08	2.39	1.45	0.78	0.45	0.40	0.25	0.18	0.14	0.07
1.67V	4.78	2.28	1.40	0.78	0.44	0.37	0.24	0.17	0.14	0.07
1.70V	4.37	2.25	1.27	0.77	0.42	0.33	0.23	0.17	0.14	0.07
1.75V	4.30	2.17	1.22	0.74	0.40	0.32	0.22	0.17	0.13	0.07
1.80V	3.82	1.97	1.14	0.73	0.40	0.31	0.22	0.16	0.13	0.07

Constant power discharge characteristics Unit:W(25°C77°F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	56.10	29.60	17.90	10.00	5.38	4.00	2.70	1.63	1.56	0.90
1.67V	54.60	28.80	17.70	9.90	5.34	4.00	2.70	1.61	1.50	0.84
1.70V	53.00	28.00	17.50	9.80	5.26	3.90	2.70	1.61	1.50	0.84
1.75V	50.70	27.30	17.10	9.60	5.16	3.84	2.64	1.59	1.50	0.84
1.80V	48.30	25.70	16.30	9.30	5.00	3.72	2.58	1.54	1.44	0.78

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VRLA Rechargeable Battery

TP12-2.3

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

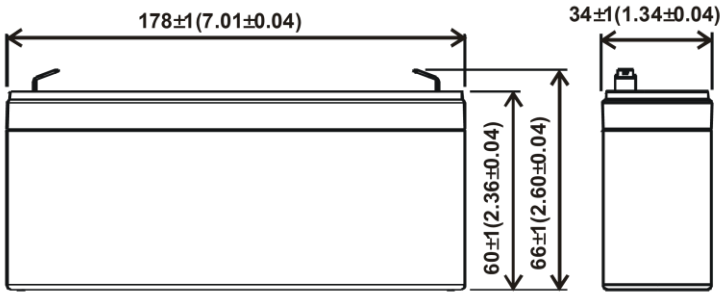
TP12-2.3 is a general purpose battery with 3~5 years service life under normal float charge at 25°C. TechPower batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

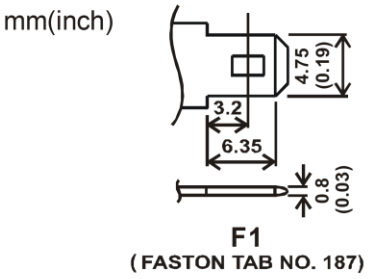
SPECIFICATIOIN

Cell per unit	6	**Ambient temperature**	
Nominal Voltage (V)	12	Charge : 0°C (32°F) to 40°C (104°F)	
Nominal Capacity (Ah)	2.2Ah @ 20hour rate F.V(1.75/Cell)	Discharge : -15°C (5°F) to 50°C (122°F)	
Weight	Approx.1.05 kg(2.31Lbs.)	Storage : -15°C (5°F) to 40°C (104°F)	
Internal Resistance (1KHz)	37mΩ	**Max charge Current**	
Max Discharge Current (5s)	44A (5s)	**Cycle use :**	Max charge current：0.66A
Battery Life :	Stand by : 3~5 years		Charge voltage: 14.4V to 15.0V
Terminal Type	F1	**Stand by :**	Charge voltage:13.5V to 13.8V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	178±1	34±1	60±1	66±1
Unit: inch	7.01±0.04	1.34±0.04	2.36±0.04	2.60±0.04





Constant current discharge characteristics Unit:A(25°C 77°F)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	9.09	4.67	2.70	1.60	0.83	0.58	0.40	0.26	0.23	0.127
1.67V	8.76	4.52	2.66	1.59	0.82	0.56	0.39	0.24	0.21	0.125
1.70V	8.28	4.42	2.64	1.58	0.80	0.53	0.37	0.22	0.20	0.122
1.75V	7.48	4.19	2.58	1.55	0.76	0.50	0.36	0.21	0.19	0.120
1.80V	6.68	3.95	2.51	1.53	0.72	0.47	0.34	0.19	0.18	0.115
Constant power discharge characteristics Unit:W(25°C 77°F)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	99.30	52.70	32.30	19.10	9.97	7.05	5.64	3.19	2.72	1.52
1.67V	96.70	51.20	31.80	18.90	9.91	7.04	5.60	3.17	2.69	1.46
1.70V	90.80	50.50	31.40	18.70	9.89	7.02	5.59	3.16	2.66	1.44
1.75V	85.70	47.90	30.80	18.40	9.73	6.98	5.57	3.15	2.63	1.38
1.80V	76.50	45.20	30.20	18.00	9.60	6.93	5.56	3.14	2.59	1.34

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TECH POWER INDUSTRY

VRLA Rechargeable Battery

TP12-2.9

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

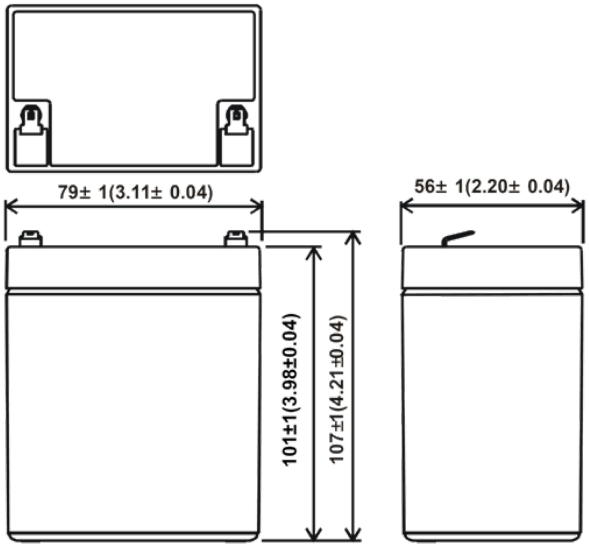
TP12-2.9 is a general purpose battery with 3~5 years service life under normal float charge at 25℃. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

SPECIFICATIOIN

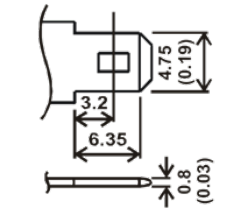
Cell per unit	6	**Ambient temperature**	
Nominal Voltage (V)	12	Charge	0℃(32℉) to 40℃ (104℉)
Nominal Capacity (Ah)	2.9Ah @ 20hour rate F.V(1.75/cell)	Discharge	-15℃(5℉) to 50℃ (122℉)
Weight	Approx.1.10kg(2.42Lbs.)	Storage	-15℃(5℉) to 40℃ (104℉)
Internal Resistance (1KHz)	34mΩ	**Max charge Current**	
Max Discharge Current (5s)	43.5A	**Cycle use :**	Max charge current：0.87A
Battery Life :	Stand by : 3~5 years		Charge voltage: 14.4 to 15.0V
Terminal Type	F1	**Stand by :**	Charge voltage: 13.50 to 13.80V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	79±1	56±1	101±1	107±1
Unit: inch	3.11±0.04	2.20±0.04	3.98±0.04	4.21±0.04



mm(inch)



F1
(FASTON TAB NO. 187)

Constant current discharge characteristics Unit:A(25℃77℉)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	11.19	5.63	3.34	1.82	1.06	0.82	0.537	0.351	0.291	0.152
1.67V	10.15	5.26	3.16	1.80	1.02	0.79	0.519	0.348	0.288	0.151
1.70V	9.20	4.95	2.99	1.76	1.00	0.76	0.505	0.343	0.282	0.149
1.75V	8.36	4.64	2.88	1.71	0.98	0.74	0.493	0.338	0.277	0.146
1.80V	7.41	4.24	2.77	1.63	0.94	0.73	0.480	0.332	0.270	0.145

Constant power discharge characteristics Unit:W(25℃77℉)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	111.60	59.10	36.48	20.52	12.06	9.36	6.204	4.116	3.438	1.794
1.67V	103.20	56.16	34.80	20.46	11.64	9.12	6.030	4.086	3.408	1.788
1.70V	94.80	53.22	33.24	20.16	11.52	8.76	5.886	4.032	3.342	1.764
1.75V	88.80	50.58	32.16	19.56	11.28	8.56	5.754	3.984	3.282	1.734
1.80V	80.40	46.86	31.20	18.78	10.92	8.46	5.622	3.924	3.198	1.722

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TECH POWER INDUSTRY

VRLA Rechargeable Battery

TP12-3.5

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

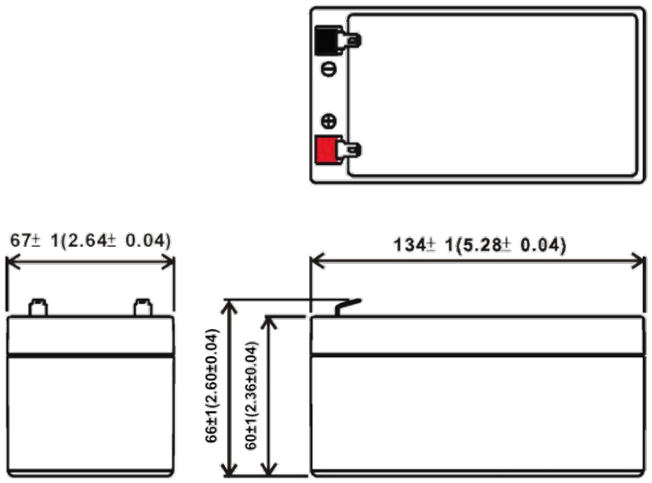
TP12-3.5 is a general purpose battery with 3~5 years service life under normal float charge at 25°C. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

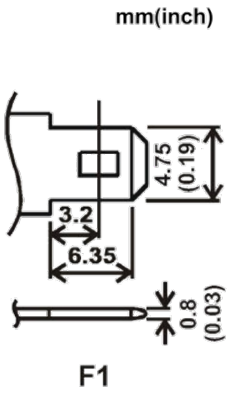
SPECIFICATIOIN

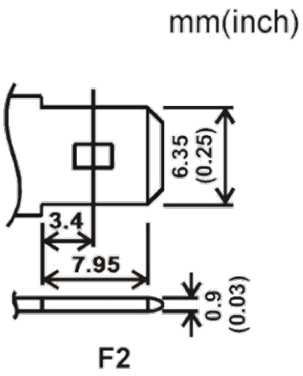
Cell per unit	6	**Ambient temperature**	
Nominal Voltage (V)	12	Charge	0°C(32°F) to 40°C (104°F)
Nominal Capacity (Ah)	3.5Ah @ 20hour rate F.V(1.75/cell)	Discharge	-15°C(5°F) to 50°C (122°F)
Weight	Approx.1.35kg(2.98Lbs.)	Storage	-15°C(5°F) to 40°C (104°F)
Internal Resistance (1KHz)	32mΩ	**Max charge Current**	
Max Discharge Current (5s)	54A	**Cycle use :**	Max charge current：1.08A
Battery Life :	Stand by : 3~5 years		Charge voltage: 14.4 to 15.0V
Terminal Type	F1/F2	**Stand by :**	Charge voltage: 13.50 to 13.80V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	134±1	67±1	60±1	66±1
Unit: inch	5.28±0.04	2.64±0.04	2.36±0.04	2.60±0.04







Constant current discharge characteristics Unit:A(25°C77°F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	15.42	7.35	4.11	2.29	1.19	0.88	0.60	0.41	0.34	0.176
1.67V	14.97	7.13	4.07	2.27	1.18	0.87	0.59	0.41	0.33	0.176
1.70V	14.26	7.00	3.95	2.25	1.17	0.86	0.59	0.41	0.33	0.176
1.75V	13.45	6.82	3.92	2.21	1.16	0.86	0.59	0.40	0.33	0.175
1.80V	11.40	6.50	3.77	2.14	1.16	0.85	0.59	0.40	0.33	0.175

Constant power discharge characteristics Unit:W(25°C77°F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	163.20	81.60	46.92	26.52	15.10	10.33	7.02	4.90	3.90	2.05
1.67V	157.69	79.99	46.43	26.26	15.08	10.27	7.00	4.89	3.90	2.05
1.70V	151.16	78.19	45.80	25.95	15.00	10.20	6.97	4.88	3.90	2.05
1.75V	142.27	75.87	44.78	25.49	14.90	10.11	6.94	4.85	3.88	2.04
1.80V	122.93	72.52	43.13	24.75	14.55	9.91	6.83	4.82	3.82	2.00

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TECH POWER INDUSTRY

VRLA Rechargeable Battery

TP12-5

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

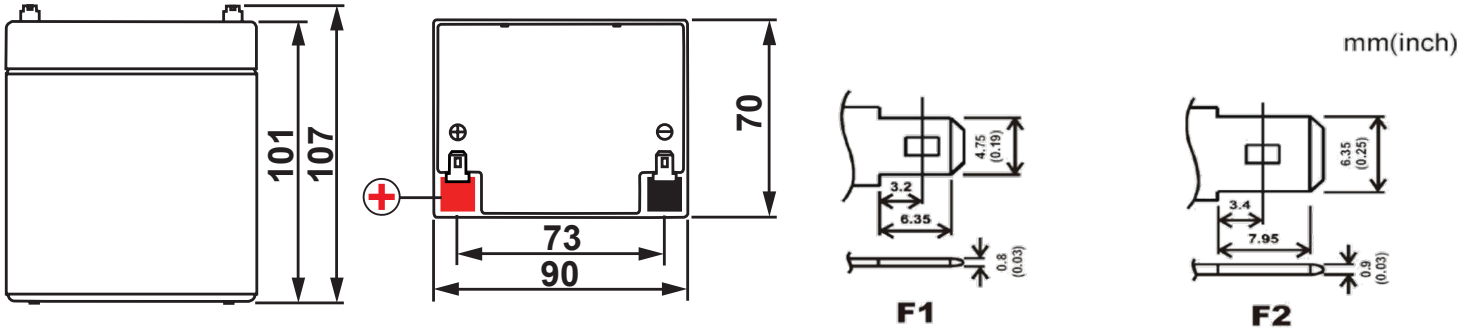
TP12-5 is a standby using battery with 3~5 years service life under normal float charge at 25℃. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

SPECIFICATIOIN

Cell per unit	6	**Ambient temperature**	
Nominal Voltage (V)	12	Charge	0℃(32℉) to 40℃ (104℉)
Nominal Capacity (Ah)	5.8Ah@ 20hour rate F.V(1.75/cell)	Discharge	-15℃(5℉) to 50℃ (122℉)
Weight	Approx. 1.90kg(4.19Lbs.)	Storage	-15℃(5℉) to 40℃ (104℉)
Internal Resistance (1KHz)	20mΩ	**Max charge Current**	
Max Discharge Current (5s)	75A		Max charge current：2.1A
Battery Life :	Stand by : 3~5 years	**Cycle use :**	Charge voltage: 14.4 to 15.0V
Terminal Type	F1/F2	**Stand by :**	Charge voltage: 13.50 to 13.80V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	90±1	70±1	10160±1	107±1
Unit: inch	3.54±0.04	2.76±0.04	3.98±0.04	4.21±0.04



Constant current discharge characteristics Unit:A(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	25.2	11.6	6.90	3.77	2.19	1.69	1.11	0.727	0.603	0.314
1.67V	23.0	10.9	6.54	3.73	2.10	1.64	1.04	0.720	0.296	0.313
1.70V	21.0	10.2	6.20	3.65	2.07	1.57	1.05	0.709	0.584	0.308
1.75V	19.3	9.59	5.95	3.54	2.02	1.53	1.02	0.699	0.573	0.303
1.80V	17.3	8.87	5.73	3.38	1.95	1.50	0.99	0.687	0.558	0.300

Constant power discharge characteristics Unit:W(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	274.0	136.0	75.9	42.89	21.31	16.71	11.35	7.859	6.317	3.529
1.67V	264.4	131.0	75.1	42.50	21.99	16.62	11.32	7.802	6.317	3.529
1.70V	254.3	127.5	74.1	41.95	21.82	16.50	11.28	7.694	6.301	3.313
1.75V	240.2	120.5	72.4	41.24	21.31	16.36	11.22	7.600	6.270	3.312
1.80V	220.8	115.5	69.7	39.99	20.63	16.03	11.06	7.480	6.175	3.251

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VRLA Rechargeable Battery

TP12-7.0

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

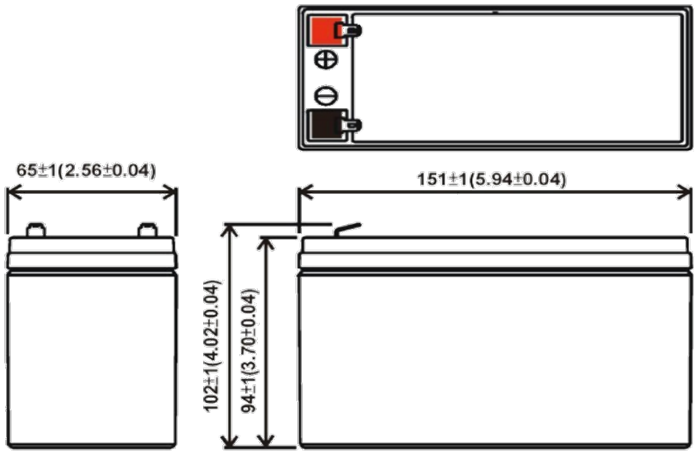
TP12-7.0 is a standby using battery with 3~5 years service life under normal float charge at 25℃. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

SPECIFICATIOIN

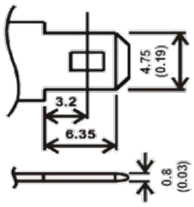
Cell per unit	6	**Ambient temperature**	
Nominal Voltage (V)	12	Charge	0℃(32℉) to 40℃ (104℉)
Nominal Capacity (Ah)	7Ah@ 20hour rate F.V(1.75/cell)	Discharge	-15℃(5℉) to 50℃ (122℉)
Weight	Approx. 2.05kg(4.52Lbs.)	Storage	-15℃(5℉) to 40℃ (104℉)
Internal Resistance (1KHz)	27mΩ	**Max charge Current**	
Max Discharge Current (5s)	105A		Max charge current：2.1A
Battery Life :	Stand by : 3~5 years	**Cycle use :**	Charge voltage: 14.4 to 15.0V
Terminal Type	F1/F2	**Stand by :**	Charge voltage: 13.50 to 13.80V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

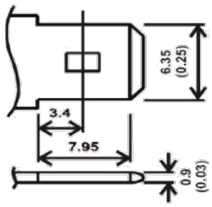
DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	151±1	65±1	94±1	102±1
Unit: inch	5.94±0.04	2.56±0.04	3.70±0.04	4.02±0.04



mm(inch)



F1



F2

Constant current discharge characteristics Unit:A(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	26.4	12.8	7.30	4.20	2.21	0.79	1.25	0.78	0.70	0.38
1.67V	25.6	12.4	7.15	4.16	2.12	1.72	1.20	0.78	0.70	0.37
1.70V	25.2	12.0	7.06	4.00	2.09	1.70	1.19	0.77	0.67	0.36
1.75V	23.4	11.7	6.84	3.92	2.02	1.64	1.18	0.77	0.67	0.36
1.80V	20.7	10.6	6.78	3.65	1.94	1.56	1.17	0.76	0.66	0.35

Constant power discharge characteristics Unit:W(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	285	150	82	49.1	24.4	21.0	14.2	9.00	7.24	3.81
1.67V	284	147	80	48.7	25.2	20.6	14.1	8.94	7.24	3.81
1.70V	278	146	77	48.0	25.0	19.7	14.1	8.81	7.22	3.80
1.75V	269	141	74	47.2	24.4	18.7	13.9	8.71	7.18	3.79
1.80V	244	135	39	45.8	23.6	18.4	13.5	8.57	7.07	3.72

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TECH POWER INDUSTRY

VRLA Rechargeable Battery

TP12-7.2

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

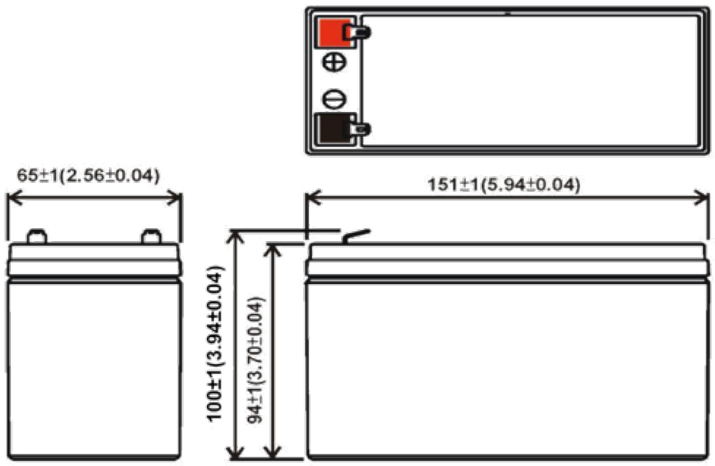
TP12-7.2 is a general purpose battery with 3~5 years service life under normal float charge at 25℃. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

SPECIFICATIOIN

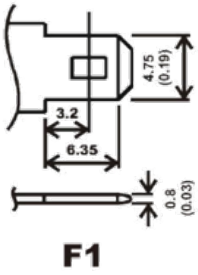
Cell per unit	6	**Ambient temperature**	
Nominal Voltage (V)	12	Charge	0℃(32℉) to 40℃ (104℉)
Nominal Capacity (Ah)	7.2Ah @ 20hour rate F.V(1.75/Cell)	Discharge	-15℃(5℉) to 50℃ (122℉)
Weight	Approx 2.30 kg(5.07Lbs.)	Storage	-15℃(5℉) to 40℃ (104℉)
Internal Resistance (1KHz)	22 mΩ	**Max charge Current**	
Max Discharge Current (5s)	108A (5s)	**Cycle use :**	Max charge current：2.16A
Battery Life :	Stand by : 3~5 years		Charge voltage: 14.4V to 15.0V
Terminal Type	F1/F2	**Stand by :**	Charge voltage: 13.5V to 13.8V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

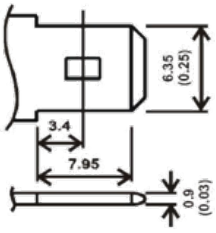
DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	151±1	65±1	94±1	100±1
Unit: inch	5.94±0.04	2.56±0.04	3.70±0.04	3.94±0.04



mm(inch)



F1



F2

Constant current discharge characteristics Unit:A(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	33.04	14.504	7.50	4.39	2.30	1.84	1.24	0.88	0.71	0.37
1.67V	31.21	13.916	7.25	4.33	2.27	1.79	1.24	0.85	0.69	0.36
1.70V	29.96	13.622	7.15	4.30	2.24	1.76	1.23	0.83	0.68	0.35
1.75V	28.33	13.524	7.00	4.27	2.22	1.72	1.23	0.83	0.68	0.35
1.80V	25.87	12.838	6.86	4.17	2.17	1.66	1.22	0.80	0.67	0.35

Constant power discharge characteristics Unit:W(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	345	172	99.4	56.2	31.5	21.9	14.9	11.6	8.27	4.35
1.67V	330	170	98.3	55.6	30.6	21.8	14.8	11.6	8.27	4.35
1.70V	305	167	97.0	54.9	31.4	21.6	14.8	11.6	8.25	4.34
1.75V	280	161	94.8	54.0	27.8	21.4	14.7	11.3	8.21	4.32
1.80V	255	154	91.3	52.4	27.0	21.0	14.5	11.3	8.08	4.23

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TECH POWER INDUSTRY

VRLA Rechargeable Battery

TP12-12

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

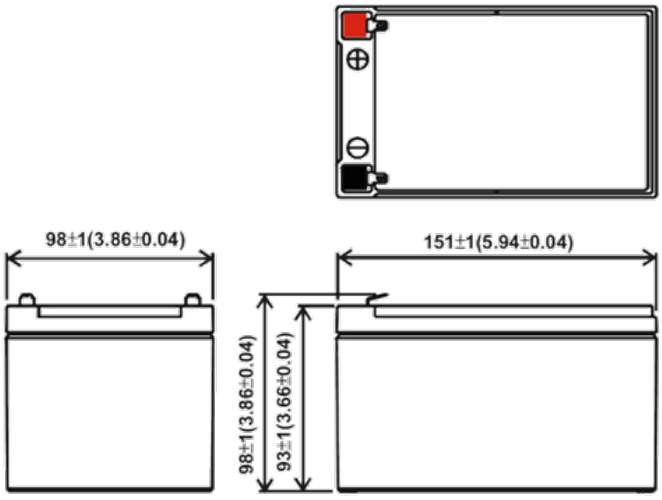
TP12-12 is a general purpose battery with 3~5 years service life under normal float charge at 25℃. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

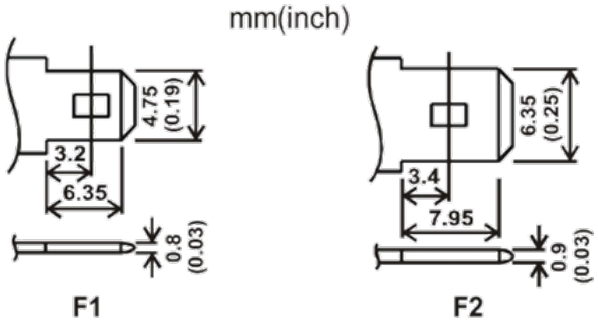
SPECIFICATIOIN

Cell per unit	6	**Ambient temperature**	
Nominal Voltage (V)	12	Charge	0℃(32℉) to 40℃ (104℉)
Nominal Capacity (Ah)	12Ah @ 20hour rate F.V(1.75/Cell)	Discharge	-15℃(5℉) to 50℃ (122℉)
Weight	Approx3.95 kg(8.71Lbs.)	Storage	-15℃(5℉) to 40℃ (104℉)
Internal Resistance (1KHz)	12mΩ	**Max charge Current**	
Max Discharge Current (5s)	240A (5s)	**Cycle use :**	Max charge current：3.6A
Battery Life :	Stand by : 3~5 years		Charge voltage: 14.4V to 15.0V
Terminal Type	F1/F2	**Stand by :**	Charge voltage: 13.5V to 13.8V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	151±1	98±1	93±1	98±1
Unit: inch	5.94±0.04	3.86±0.04	3.66±0.04	3.86±0.04





Constant current discharge characteristics Unit:A(25℃77℉)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	47.8	22.0	13.40	7.20	3.80	3.35	2.21	1.38	1.22	0.67
1.67V	44.3	21.3	12.90	7.13	3.78	3.17	2.16	1.38	1.20	0.66
1.70V	41.0	20.7	11.70	6.86	3.65	3.00	2.11	1.37	1.16	0.64
1.75V	40.5	20.0	11.10	6.72	3.62	2.93	2.05	1.36	1.14	0.61
1.80V	35.9	18.2	10.30	6.26	3.58	2.86	2.02	1.36	1.13	0.60

Constant power discharge characteristics Unit:W(25℃77℉)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	576.0	288.0	166.8	93.60	52.00	36.40	24.70	15.40	13.90	8.02
1.67V	556.6	273.8	164.4	92.40	51.70	36.30	24.70	15.40	13.90	8.02
1.70V	533.5	270.6	161.4	91.80	51.50	36.00	24.60	15.30	13.80	7.90
1.75V	502.1	261.6	157.2	90.00	50.70	35.70	24.40	15.20	13.80	7.90
1.80V	433.0	246.2	152.4	87.00	50.00	34.90	24.10	15.00	13.60	7.83

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TECH POWER INDUSTRY

VRLA Rechargeable Battery

TP12-20

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

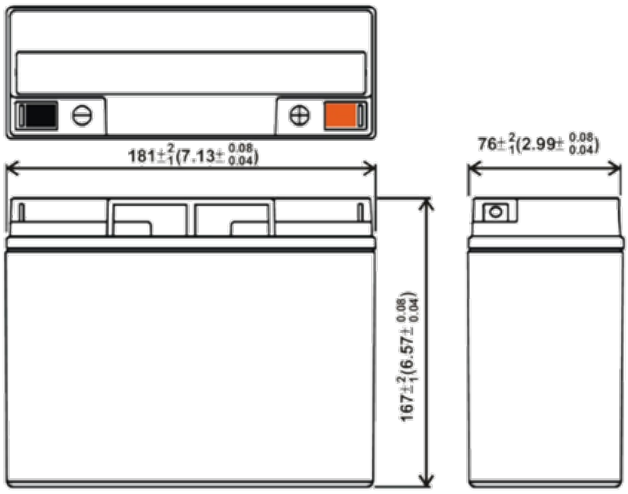
TP12-20 is a general purpose battery with 3~5 years service life under normal float charge at 25℃. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

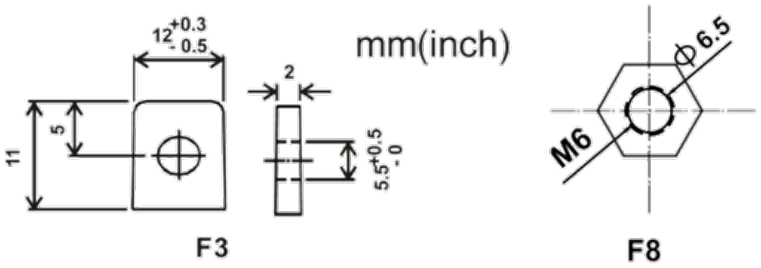
SPECIFICATIOIN

Cell per unit	6	**Ambient temperature**	
Nominal Voltage (V)	12	Charge	0℃(32℉) to 40℃ (104℉)
Nominal Capacity (Ah)	20Ah @ 20hour rate F.V(1.75/Cell)	Discharge	-15℃(5℉) to 50℃ (122℉)
Weight	Approx 6.10 kg(13.44Lbs.)	Storage	-15℃(5℉) to 40℃ (104℉)
Internal Resistance (1KHz)	9mΩ	**Max charge Current**	
Max Discharge Current (5s)	300A (5s)	**Cycle use :**	Max charge current：6.6A
Battery Life :	Stand by : 3~5 years		Charge voltage: 14.4V to 15.0V
Terminal Type	NB(F3)/IT(F8)	**Stand by :**	Charge voltage: 13.5V to 13.8V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	181±1	76±1	167±1	167±1
Unit: inch	7.13±0.04	2.99±0.04	6.57±0.04	6.57±0.04





Constant current discharge characteristics Unit:A(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	80.2	38.5	25.1	13.8	8.03	5.71	3.85	2.55	2.06	1.13
1.65V	71.2	35.8	24.0	13.7	8.00	5.69	3.79	2.50	2.04	1.11
1.70V	67.3	33.5	23.3	13.6	7.98	5.41	3.77	2.48	2.02	1.10
1.75V	61.0	32.1	22.6	13.4	7.94	5.35	3.58	2.41	1.97	1.06
1.80V	54.4	30.0	22.0	13.3	7.87	5.10	3.42	2.35	1.93	1.05

Constant power discharge characteristics Unit:W(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60HR**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	900.0	510.0	262.0	153.0	83.00	63.40	44.64	29.88	23.10	13.20
1.65V	880.0	506.0	256.0	149.0	81.00	62.30	43.82	29.32	22.80	12.83
1.70V	870.0	500.0	253.0	148.0	80.50	61.50	43.54	28.75	22.70	12.75
1.75V	835.0	483.0	243.0	144.0	78.20	60.70	41.62	27.90	22.40	12.47
1.80V	760.0	453.0	228.0	139.0	76.40	58.60	40.70	27.30	22.00	12.40

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VRLA Rechargeable Battery

TP12-26

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

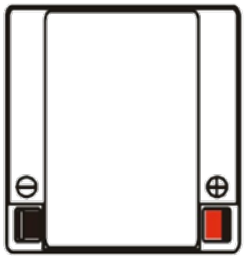
TP12-26 is a general purpose battery with 3~5 years service life under normal float charge at 25℃. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

SPECIFICATIOIN

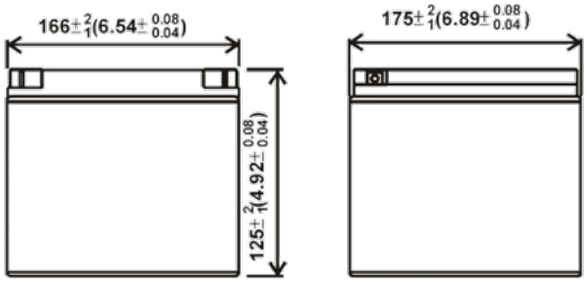
Cell per unit	6	**Ambient temperature**	
Nominal Voltage (V)	12	Charge 0 (32) to 40 (104)	
Nominal Capacity (Ah)	26Ah @ 20hour rate F.V(1.75/Cell)	Discharge -15 (5) to 50 (122)	
Weight	Approx 8.00 kg(17.63Lbs.)	Storage -15 (5) to 40 (104)	
Internal Resistance (1KHz)	11mΩ	**Max charge Current**	
Max Discharge Current (5s)	390A (5s)	**Cycle use :**	Max charge current：7.8A
Battery Life :	Stand by : 3~5 years		Charge voltage: 14.4V to 15.0V
Terminal Type	NB/IT	**Stand by :**	Charge voltage: 13.5V to 13.8V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

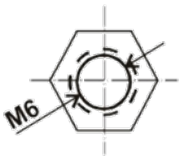
MH46202

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	166±1	175±1	125±1	125±1
Unit: inch	6.54±0.04	6.89±0.04	4.92±0.04	4.92±0.04

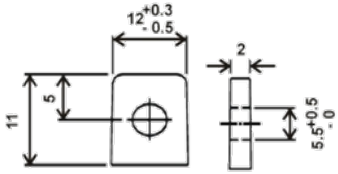


mm(inch)





F8



F3
(M5 Bolts)

Constant current discharge characteristics Unit:A(25℃77℉)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	101.40	47.70	29.10	15.70	9.60	7.02	4.65	3.10	2.55	1.36
1.65V	95.10	46.20	27.90	15.40	9.43	6.92	4.58	3.07	2.52	1.35
1.70V	87.80	44.80	25.30	14.60	9.25	6.79	4.52	3.03	2.50	1.34
1.75V	86.80	43.30	23.90	14.50	9.00	6.65	4.46	2.99	2.46	1.33
1.80V	76.90	39.40	22.30	14.30	8.70	6.48	4.40	2.94	2.43	1.30

Constant power discharge characteristics Unit:W(25℃77℉)

F.V/Time	5MIN	15MIN	30MIN	60HR	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	1062.0	562.0	302.0	185.0	100.0	79.10	55.08	37.02	30.48	16.38
1.65V	991.0	556.0	297.0	183.0	99.0	79.00	54.60	36.78	30.30	16.30
1.70V	928.0	545.0	293.0	181.0	96.0	78.30	53.94	36.42	30.00	16.20
1.75V	860.0	510.0	288.0	180.0	95.0	77.20	53.22	36.00	29.99	16.02
1.80V	771.0	482.0	274.0	175.0	94.0	75.00	52.32	35.52	29.20	15.80

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TECH POWER INDUSTRY

VRLA Rechargeable Battery

TP12-40

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

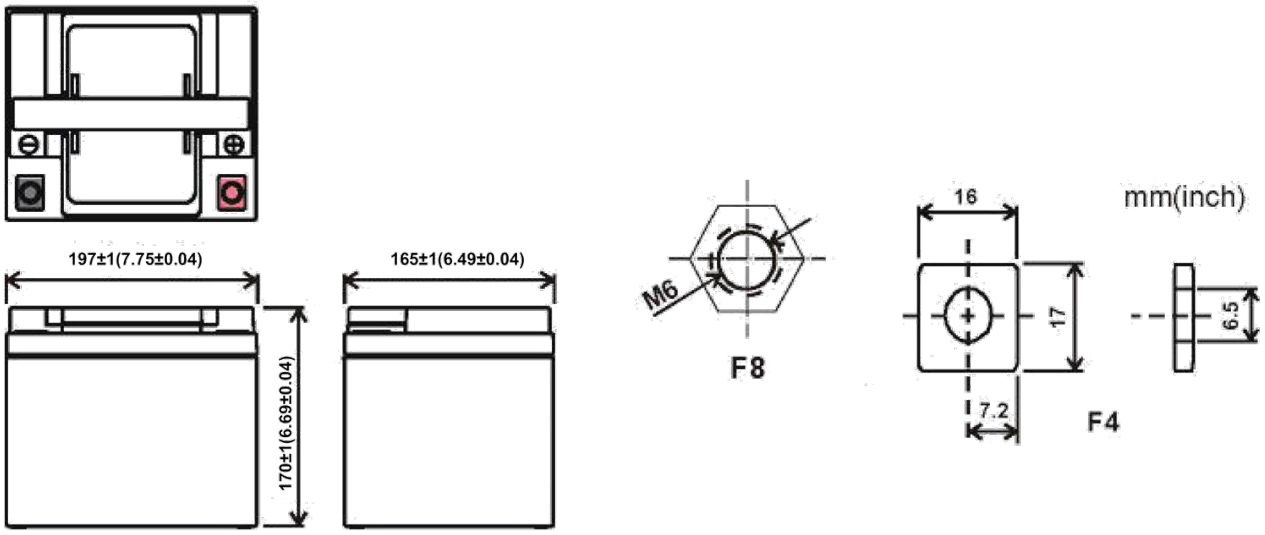
TP12-40 is a general purpose battery with 3~5 years service life under normal float charge at 25℃. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

SPECIFICATIOIN

Cell per unit	6	**Ambient temperature**	
Nominal Voltage (V)	12	Charge	0℃(32℉) to 40℃ (104℉)
Nominal Capacity (Ah)	41Ah @ 20hour rate F.V(1.75/Cell)	Discharge	-15℃(5℉) to 50℃ (122℉)
Weight	Approx 13.50kg	Storage	-15℃(5℉) to 40℃ (104℉)
Internal Resistance (1KHz)	7.5 mΩ	**Max charge Current**	
Max Discharge Current (5s)	480A (5s)	**Cycle use :**	Max charge current：13.5A
Battery Life :	Stand by :3~5 years		Charge voltage: 14.4V to 14.80V
Terminal Type	NB(F4)/IT(F8)	**Stand by :**	Charge voltage: 13.5V to 13.8V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	197±1	165±1	170±1	170±1
Unit: inch	7.76±0.04	6.50±0.04	6.69±0.04	6.69±0.04



Constant current discharge characteristics Unit:A(25°C 77°)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	169.00	83.50	49.00	34.20	18.10	12.50	7.80	5.06	4.17	2.20
1.67V	167.00	82.20	48.30	33.90	18.00	12.40	7.74	5.04	4.14	2.20
1.70V	164.00	81.40	48.00	33.80	18.00	12.30	7.72	5.03	4.13	2.19
1.75V	159.00	79.60	47.10	33.60	17.90	12.20	7.66	5.01	4.10	2.19
1.80V	150.00	76.10	45.50	32.90	17.80	12.00	7.54	4.98	4.04	2.17

Constant power discharge characteristics Unit:W(25℃77℉)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	1791.0	935.0	573.0	408.0	216.0	150.0	91.56	61.10	47.20	26.10
1.67V	1757.0	920.0	568.0	406.0	215.0	149.0	90.93	60.70	45.80	24.90
1.70V	1739.0	912.0	561.0	404.0	214.0	148.0	89.46	60.50	45.30	24.50
1.75V	1689.0	891.0	551.0	402.0	212.0	147.0	87.78	60.10	44.10	23.60
1.80V	1593.0	852.0	532.0	399.0	201.0	145.0	85.47	59.30	42.90	22.50

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TECH POWER INDUSTRY

VRLA Rechargeable Battery

TP12-45

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

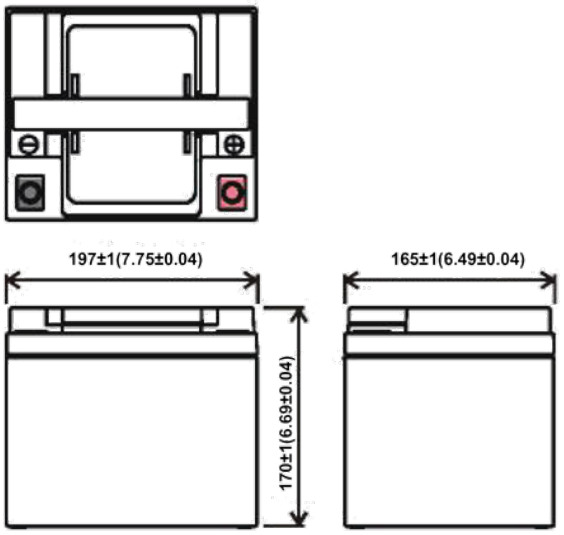
TP12-45 is a general purpose battery with 3~5 years service life under normal float charge at 25℃. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

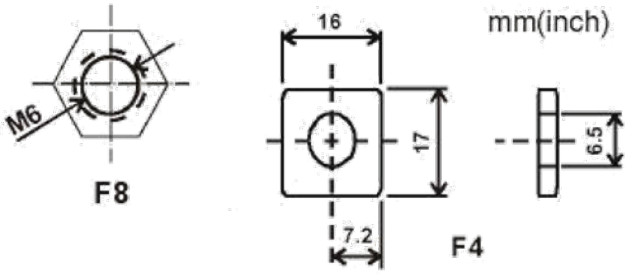
SPECIFICATIOIN

Cell per unit	6	**Ambient temperature**	
Nominal Voltage (V)	12	Charge	0℃(32℉) to 40℃ (104℉)
Nominal Capacity (Ah)	50Ah @ 20hour rate F.V(1.75/Cell)	Discharge	-15℃(5℉) to 50℃ (122℉)
Weight	Approx 14.62kg(32.22Lbs.)	Storage	-15℃(5℉) to 40℃ (104℉)
Internal Resistance (1KHz)	9.0mΩ	**Max charge Current**	
Max Discharge Current (5s)	540A (5s)	**Cycle use :**	Max charge current：13.5A
Battery Life :	Stand by :3~5 years		Charge voltage: 14.4V to 15.0V
Terminal Type	NB(F4)/IT(F8)	**Stand by :**	Charge voltage: 13.5V to 13.8V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	197±1	165±1	170±1	170±1
Unit: inch	7.76±0.04	6.50±0.04	6.69±0.04	6.69±0.04





Constant current discharge characteristics Unit:A(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	190.00	82.50	45.00	27.50	16.90	12.90	8.44	5.58	4.73	2.45
1.67V	188.00	77.10	44.00	26.50	16.30	12.50	8.17	5.53	7.68	2.44
1.70V	186.00	72.60	43.60	25.60	15.90	12.00	7.95	5.44	4.59	2.41
1.75V	170.00	68.00	41.90	24.90	15.30	11.70	7.74	5.36	4.55	2.36
1.80V	153.00	62.20	40.40	23.80	14.70	11.50	7.56	5.27	4.50	2.34
Constant power discharge characteristics Unit:W(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	2000.0	980.0	531.6	338.0	178.0	148.2	97.80	65.40	55.86	28.98
1.67V	1950.0	960.0	507.0	331.0	175.0	144.6	94.80	64.80	55.32	28.86
1.70V	1932.0	945.0	484.8	321.0	173.0	139.2	92.40	64.20	54.30	28.50
1.75V	1880.0	900.0	468.6	310.0	165.0	135.6	90.60	63.00	53.82	28.02
1.80V	1600.0	801.0	454.8	302.0	162.0	133.8	88.20	62.40	53.34	27.78

TECH POWER INDUSTRY

VRLA Rechargeable Battery

TP12-55

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

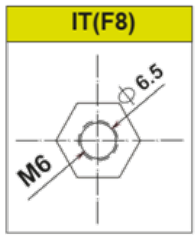
TP12-55 is a general purpose battery with 3~5 years service life under normal float charge at 25℃. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

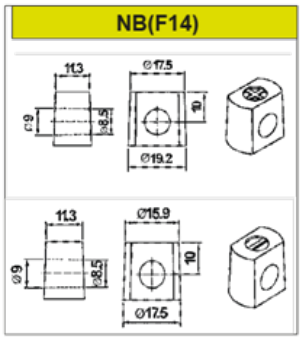
SPECIFICATIOIN

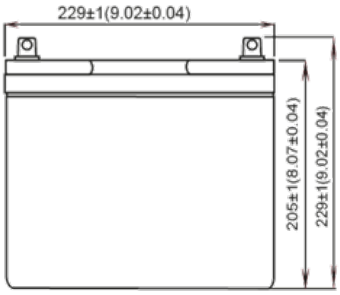
Cell per unit	6	**Ambient temperature**	
Nominal Voltage (V)	12	Charge	0℃(32℉) to 40℃ (104℉)
Nominal Capacity (Ah)	58Ah @ 20hour rate F.V(1.75/Cell)	Discharge	-15℃(5℉) to 50℃ (122℉)
Weight	Approx 17.0kg(37.47Lbs.)	Storage	-15℃(5℉) to 40℃ (104℉)
Internal Resistance (1KHz)	8.3mΩ	**Max charge Current**	
Max Discharge Current (5s)	660A (5s)	**Cycle use :**	Max charge current：16.5A
Battery Life :	Stand by :3~5years		Charge voltage: 14.4V to 15.0V
Terminal Type	NB(F14)/IT(F8)	**Stand by :**	Charge voltage: 13.5V to 13.8V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

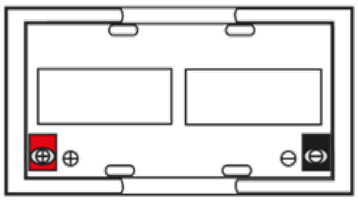
MH46202

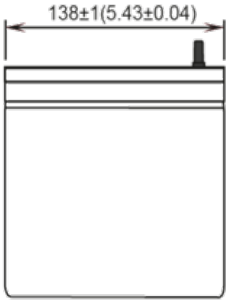
DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	229±1	138±1	205±1	229±1
Unit: inch	9.02±0.04	5.43±0.04	8.07±0.04	9.02±0.04











Constant current discharge characteristics Unit:A(25℃77℉)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	198.0	103.0	61.0	36.0	20.6	16.00	10.70	6.82	5.79	3.00
1.67V	195.0	94.3	56.3	32.4	20.0	15.30	9.98	6.75	5.73	2.98
1.70V	188.0	88.7	53.3	31.3	19.4	14.70	9.71	6.65	5.61	2.94
1.75V	183.0	83.1	51.3	30.4	18.7	14.30	9.46	6.56	5.56	2.89
1.80V	158.0	76.0	49.4	29.0	18.0	14.10	9.23	6.45	5.50	2.85

Constant power discharge characteristics Unit:W(25℃77℉)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	2200.0	1210.0	654.0	400.0	230.0	185.0	125.0	79.80	70.50	35.50
1.67V	2100.0	1180.0	630.0	387.2	225.0	180.0	120.8	79.20	68.80	35.30
1.70V	2000.0	1150.0	600.0	368.2	223.0	174.4	117.5	78.00	67.60	34.85
1.75V	1820.0	970.0	580.0	355.0	217.0	170.0	114.4	77.40	66.00	34.50
1.80V	1670.0	900.0	565.0	344.2	208.0	165.2	110.0	76.20	65.40	34.00

TECH POWER INDUSTRY

VRLA Rechargeable Battery

TP12-100

YOUR BEST POWER SOURCE SOLUTIONS

FEATURES

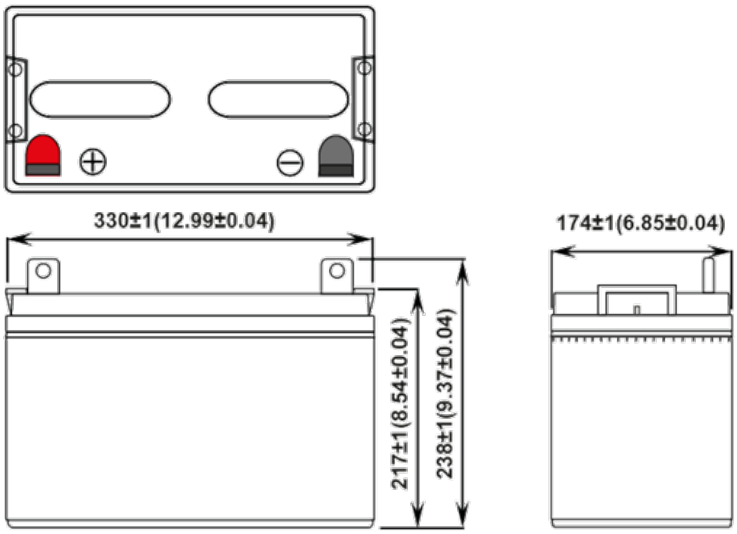
TP12-100 is a general purpose battery with 3~5 years service life under normal float charge at 25℃. LCB batteries are rechargeable Seal Lead highly efficient, leak proof and maintenance free.

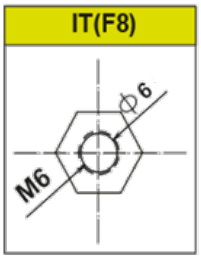
SPECIFICATIOIN

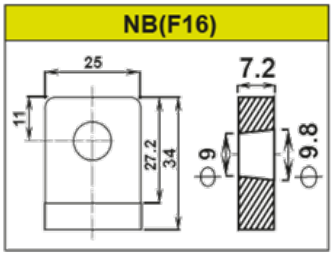
Cell per unit	6	**Ambient temperature**	
Nominal Voltage (V)	12	Charge	0℃(32℉) to 40℃ (104℉)
Nominal Capacity (Ah)	110Ah @ 20hour rate F.V(1.75/Cell)	Discharge	-15℃(5℉) to 50℃ (122℉)
Weight	Approx 30.9kg(68.12Lbs.)	Storage	-15℃(5℉) to 40℃ (104℉)
Internal Resistance (1KHz)	5mΩ	**Max charge Current**	
Max Discharge Current (5s)	1000A (5s)	**Cycle use :**	Max charge current：33A
Battery Life :	Stand by :3~5 years		Charge voltage: 14.4V to 15.0V
Terminal Type	IT(F8)/NB(F16)	**Stand by :**	Charge voltage: 13.5V to 13.8V
Container Material	ABS(Option：94-HB & 94V-0 flame retardant case)		

MH46202

DIMENTIONS	Length	Width	Height	Total Height
Unit: mm	330±1	174±1	217±1	238±1
Unit: inch	12.99±0.04	6.85±0.04	8.54±0.04	9.37±0.04







Constant current discharge characteristics Unit:A(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	363.8	191.3	112.3	63.1	36.4	26.77	18.04	12.32	10.19	5.47
1.67V	335.6	180.0	99.9	61.1	35.2	25.32	17.75	12.22	9.99	5.36
1.70V	325.9	169.2	98.0	58.6	34.2	24.93	17.36	12.03	9.89	5.32
1.75V	295.9	157.1	89.3	56.3	31.5	24.06	17.07	11.83	9.80	5.22
1.80V	259.0	145.5	69.1	54.2	25.0	22.99	16.68	11.64	9.70	5.10

Constant power discharge characteristics Unit:W(25℃77℉)										
F.V/Time	**5MIN**	**15MIN**	**30MIN**	**60MIN**	**2HR**	**3HR**	**5HR**	**8HR**	**10HR**	**20HR**
1.60V	3800	2200.0	1216.0	747.0	453.0	324.0	208.9	144.3	127.07	64.38
1.67V	3600	2055.0	1147.0	738.0	437.0	318.0	205.4	143.2	123.19	63.84
1.70V	3503	1995.0	1126.0	731.0	431.0	313.0	202.5	141.4	121.25	63.24
1.75V	3292	1750.0	1085.0	714.0	422.0	311.0	199.6	139.7	116.40	62.70
1.80V	3071	1800.0	1031.0	696.0	416.0	298.0	195.6	137.9	111.55	61.74

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