

ATP 1290 (12V9.0Ah)

ATP is a general purpose battery with 5 years design life in float service . It meets with IEC and JIS standards .With up-dated AGM valve regulated technology and high purity raw materials, the battery has reliable standby service life. It is suitable for UPS/EPS, medical equipment, emergency light and security systems applications.



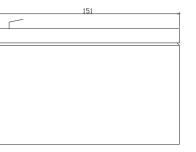
Specification

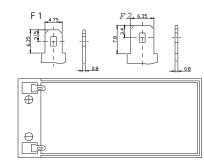
6
12
9.0Ah@20hr-rate to 1.75V per cell @25℃
Approx. 2.55Kg (Tolerance±4%)
90 A (5 sec)
Approx. 18 mΩ
Discharge: -20°C~60oC
Charge: 0°C~50°C
Storage: -20°C~60°C
25°C±5°C
13.7 to 13.9 VDC/unit Average at 25°C
2.7 A
14.6 to 14.8 VDC/unit Average at 25°C
ATP Valve Regulated Lead Acid (VRLA) batteries can be stored for
more than 6 months at 25oC. Self-discharge ratio less than 3% per
month at 25oC. Please charge batteries before using.
Faston Tab 187(F1)/Faston tab 250(F2)
A.B.S. UL94-HB, UL94-V0 Optional.

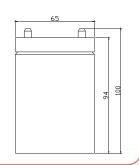


Dimensions Ur

Unit: m m Dimension: $151(L) \times 65(W) \times 100(H)$







Constant Current Discharge Characteristics : A(25°C)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1 H R	2HR	ЗHR	4HR	5 H R	8HR	10 H R	20 H R
9.60V	35.50	23.27	17.33	9.23	5.849	3.577	2.357	1.920	1.578	1.039	0.900	0.482
10.0V	34.22	22.69	16.78	9.11	5.772	3.505	2.313	1.892	1.564	1.035	0.890	0.478
10.2 V	32.20	21.57	16.31	8.97	5.717	3.468	2.293	1.874	1.553	1.026	0.877	0.464
10.5 V	28.95	20.17	15.39	8.722	5.646	3.422	2.272	1.846	1.540	1.017	0.872	0.454
10.8V	25.94	18.81	14.52	8.434	5.568	3.394	2.246	1.783	1.533	1.012	0.858	0.436
11.1 V	22.69	17.24	13.39	8.114	5.436	3.258	2.202	1.757	1.526	1.004	0.845	0.429

Constant Power Discharge Characteristics : W(25°C)

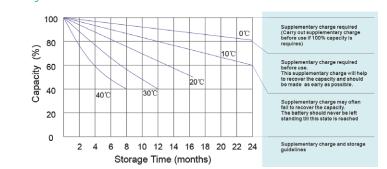
F.V/T ime	5 MIN	10MIN	15MIN	30MIN	1HR	2HR	ЗHR	4HR	5HR	8HR	10HR	20HR
9.6 0 V	385.0	255.2	191.3	105.6	69.92	42.15	28.18	22.98	18.90	12.44	10.78	5.779
10.0V	375.0	249.9	188.5	104.5	68.90	41.59	27.72	22.65	18.73	12.40	10.68	5.732
10.2V	356.7	240.0	186.0	103.6	68.39	41.23	27.48	22.44	18.62	12.30	10.54	5.584
10.5 V	325.5	230.1	176.3	101.5	67.47	40.79	27.28	22.14	18.47	12.20	10.47	5.490
10.8V	293.7	215.3	166.6	99.1	66.59	40.49	26.96	21.39	18.38	12.14	10.31	5.270
11.1 V	259.0	200.4	156.9	96.4	65.13	39.08	26.43	21.09	18.32	12.06	10.15	5.187

All mentioned values are average values (Tolerance $\pm 2\%$).

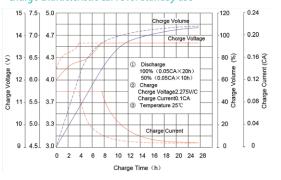
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Effect of temperature on long term float life

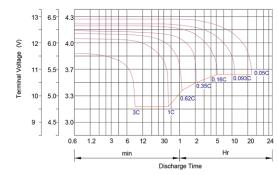
Storage characteristic



Charge characteristic Curve for standby use



Discharge characteristic curve



Capacity Factors With Different Temperature

Battery	Туре	-20℃	-10°C	0°C	5℃	10℃	20℃	25℃	30℃	40℃	45℃
GEL	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
Battery	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%
AGM	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
Battery	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

Discharge Current VS. Discharge Voltage

		<u> </u>	
Final Discharge Voltage V/cell	1.75V	1.70V	1.60V
Discharge Current (A)	(A) ≤0.2C	0.2C< (A) <1.0C	(A) ≥1.0C

Charge the batteries at least once every six months, if they are stored at 25°C.

Charging Method:

Constant Voltage	-0.2Cx2h+2.4-2.45V/cellx24h,Max. Current 0.3C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.3Cx4h

Bolt	M5	M6	M8
Terminal	F3 F4 F13 F18 T25 T26	F8 F11 F12-1 F15	F5 F9 F10 F12 F14 F16
Torque	6~7N-m	8~10N-m	10~12N-m

Maintenance & Cautions

Float Service:

- * Every month, recommend inspection every battery voltage.
- * Every three months, recommend equalization charge for one time.
- Equalization charge method:
- Discharge: 100% rate capacity discharge.
- Charge: Max. current 0.3CA, constant voltage 2.4-2.45V/Cell charge 24h.
- * Effect of temperature on float charge voltage: -3mV/°C/Cell.
- * Length of service life will be directly affected by the number of discharge .

cycles, depth of discharge, ambient temperature and charging voltage.

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