STANDBY LONG LIFE POWER



12TP110AFT-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS						
Nominal Voltage		12V				
Nominal Capacit	/					
20 hour rate	(5.15A to 10.5V)	103Ah				
10 hour rate	(10A to 10.8V)	100Ah				
5 hour rate	(17A to 10.2V)	85Ah				
1 hour rate	(60A to 9.6V)	60Ah				
1C	(100A to 9.6V)	50Ah				
Weight		Approx. 30kg				

Internal Resistance (at 1KHz) Approx. 4.3mΩ

1000A Maximum Discharge Current (5 secs)

Charge Methods at 25°C Cycle Use Charging Voltage 14.4V to 15.0V Coefficient -5.0mV/°C/Cell Maximum Charging Current 30.9A Standby Use Float Charging Voltage 13.5V to 13.8V Coefficient -3.0mV/°C/Cell

Operating Temperature Range

-15°C to 40°C Charge -15°C to 50°C Discharge -15°C to 40°C Storage

Charge Retention (Shelf Life) at 20°C

98% 1 month 94% 3 months 6 months 85%

Case Material UL94 V-0 Flame Retardant

Termination F18 (M8 Bolt)

Description of Torque Value of Hardware for the Terminals

Recommended Torque Value M8: 12 N-m (122kgf-cm) Max. Allowable Torque Value M8: 15 N-m (153kgf-cm)

Design Life

Classified as a non-spillable battery. Approved for transportation by:

- Air (IATA/ICAO provision A67)

Barcode

• Sea (per IMDG Special Provision 238)



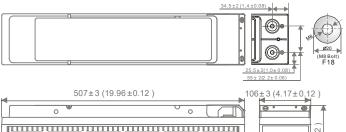


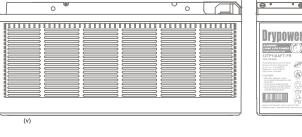
12 Years

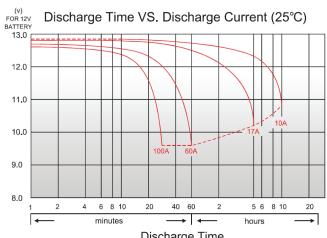


DIMENSIONS

mm (inch)

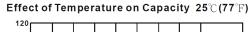


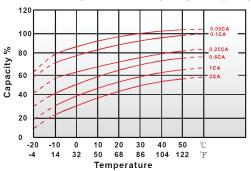




Drypower

CHARACTERISTICS CHARTS





Cycle Service Life

(1) Discharge : 5HR rate (0.17CA) (2) Charge : CV 2.4V/cell * 16H Imax 0.3CA

(3) End of life discharge voltage : 1.65 Vpc

Number of Cycles (times)

800 1000 1200 1400 1600

(4) Temperature : 25±2°(

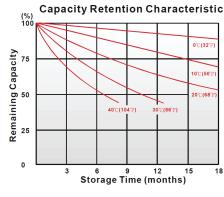
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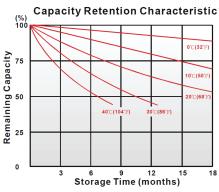
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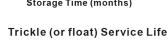
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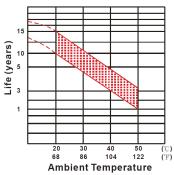
40 20

Capacity %









FEATURES & BENEFITS

- ♦ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- Long service life to reduce maintenance and logistical costs across telecom, utilities and off-grid applications.
- Minimises sulphation with a thicker plate design and higher percentage of tin content to maximise battery standby life.
- High rate discharge capable to ensure reliable performance.
- Maintenance free technology and non-spillable design.
- Manufactured by Kung Long Battery (KLB) at facilities in Taiwan and Vietnam. KLB is a leading manufacturer and complies with relevant international quality standards including ISO9001, CE ETL9000, UL1989, OHSAS18001 and ISO17025. KLB supports Green Sustainable supply chain practices.









PERFORMANCE DATA

600

Discharge Rates in Watts to Various End Voltages at 25°C (77°F)

				•	•			
Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
15	min	268	293	364	369	379	389	392
30	min	171	191	203	215	225	232	242
60	min	114	116	119	121	124	127	129
120	min	59.8	69.9	73.4	75.3	76.7	77.5	78.3
180	min	46.3	48.3	49.8	51.7	52.7	53.7	55
240	min	36	38.3	40.5	41.3	41.7	42	42.3
300	min	26.7	29.5	31.3	31.8	32.7	33.5	34.2
480	min	21.2	21.7	23	23.3	24	24.5	25
600	min	17.5	18.5	19.3	19.8	20.2	20.3	20.5
1200	min	8.67	9.83	10.5	10.7	10.8	10.8	11

Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

Discharge Nation in Amperos to various Lina voltages at 20 5 (17 1)								
Time	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
15	min	135	153	189	190	194	198	202
30	min	100	105	109	112	115	118	125
60	min	54.5	60	61.5	62.4	63.6	64.3	64.7
120	min	32.2	34.4	36	36.8	37.5	38.3	39.7
180	min	24.3	25.1	26.4	26.7	27	27.4	27.8
240	min	18.2	19.1	20	20.3	20.5	20.8	21.1
300	min	15.8	16.4	17	17.3	17.7	18	18.3
480	min	10.50	11.3	11.7	11.9	12	12.1	12.2
600	min	9.5	10	10.1	10.2	10.3	10.4	10.5
1200	min	4.7	5	5.1	5.2	5.2	5.3	5.4

All data on the spec. sheet is an average value:

The tolerance range: $X < 6 min (+15\% \sim -15\%)$, $6 min \le X < 10 min (+12\% \sim -12\%)$, $10 min \le X < 60 min (+8\% \sim -8\%)$, $X \ge 60 min (+5\% \sim -5\%)$

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Performance may vary depending on application. All specifications are correct at time of creation. All specifications and operation conditions contained in this datasheet are subject to change or improvement without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.