### STANDBY LONG LIFE POWER



**12V** 

103A

SLA

AGM

### **12TP110AFT-FR**

**Rechargeable AGM Sealed Lead Acid Battery** 

SPECIFICATIONS								
Nominal Voltage		12V						
Nominal Capacit	у							
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						

Charge Methods at 25°C	

Maximum Discharge Current (5 secs)

Cycle Use
Charging Voltage
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

 $\begin{array}{lll} \textbf{Charge} & -15^{\circ}\text{C to } 40^{\circ}\text{C} \\ \textbf{Discharge} & -15^{\circ}\text{C to } 50^{\circ}\text{C} \\ \textbf{Storage} & -15^{\circ}\text{C to } 40^{\circ}\text{C} \\ \end{array}$ 

#### Charge Retention (Shelf Life) at 20°C

 1 month
 98%

 3 months
 94%

 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)
- Road

**Barcode** 

• Sea (per IMDG Special Provision 238)

# TATA

12 Years

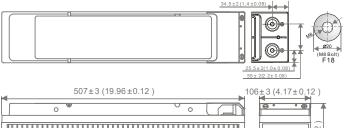
1000A

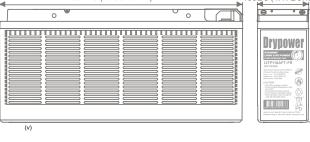


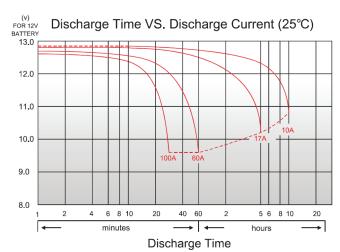


### **DIMENSIONS**

mm (inch)





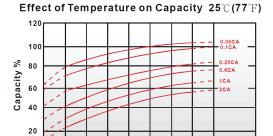


## Drypower

-20 -10 0 32

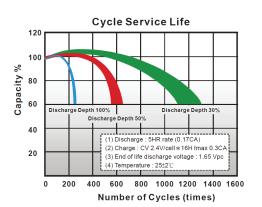
14

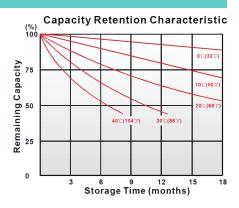
#### CHARACTERISTICS CHARTS

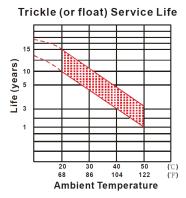


30 40

68 86 104







#### **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**

#### Discharge Rates in Watts to Various End Voltages at 25°C (77°F) **End Voltage** 1.67V 1.85V 1.80V 1.75V 1.70V 1.65V 1.60V Time 268 293 364 369 379 389 392 15 min 30 171 191 203 215 225 232 242 min 60 min 114 116 119 121 124 127 129 120 59.8 69.9 73.4 75.3 76.7 77.5 78.3 min 46.3 48.3 49.8 51.7 53.7 180 52.7 55 min 240 36 38.3 40.5 41.3 41.7 42 42.3 min 300 26.7 29.5 31.3 31.8 32.7 33.5 34.2 min 480 min 21.2 21.7 23 23.3 24 24.5 25 600 17.5 20.2 20.3 20.5 18.5 19.3 19.8 min 1200 8.67 9.83 10.5 10.7 10.8 10.8 min

Discharge Rates in Amperes 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	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.