STANDBY LONG LIFE POWER

180Ah

12TP180FT-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	12V		
Nominal Capacity			
20 hour rate (9.0A to 10.5V)		180Ah	
10 hour rate	(18A to 10.8V)	180Ah	
5 hour rate	(32.3A to 10.5V)	161.5Ah	
1 hour rate	(118A to 9.6V)	118Ah	

Weight Approx. 58kg

Internal Resistance (at 1KHz) Approx. $3.8m\Omega$
--

Maximum Discharge Current (5 secs)

Charge Methods at 25°C	
Cycle Use Charging Voltage Coefficient -5.0mV/°C/Cell	14.4V to 15.0V
Maximum Charging Current	54A
Standby Use Float Charging Voltage Coefficient -3.0mV/°C/Cell	13.5V to 13.8V

Operating Temperature Range

Charge	-10°C to 60°C
Discharge	-20°C to 60°C
Storage	-20°C to 60°C
harge Retention (Shelf Life) at 20°C	

CI 1 month

3 months	94%
6 months	85%
Case Material	UL94 V-0 Flame Retardan

Termination F18 (M8 Bolt)

Description of Torque Value of Hardware for the Terminals

M8: 12 N-m (122kgf-cm) Recommended Torque Value 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

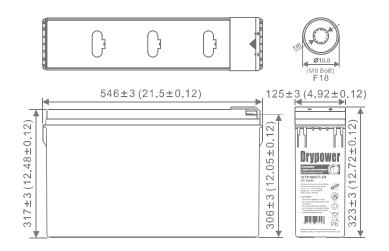
1000A

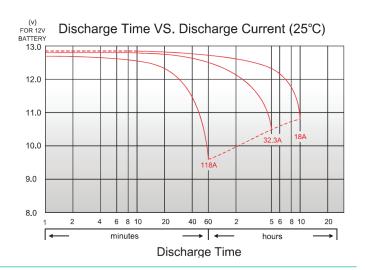




DIMENSIONS

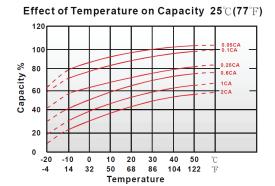
mm (inch)

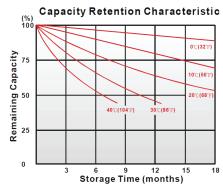


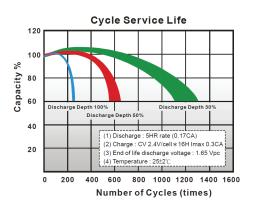


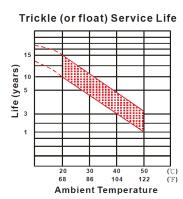


CHARACTERISTICS CHARTS









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.



97

63.6





98

64.1



PERFORMANCE DATA

180

300

Discharge Rates in Watts to Various End Voltages at 25°C (77°F) **End Voltage** 1.70V 1.65V 1.60V 1.80V 1.75V Time 15 435 458 480 503 525 min 30 318 328 339 349 360 min 45 251 257 362 268 274 min 60 208 212 217 221 225 min 120 min 125 127 130 132 134

95

62.5

96

63.1

Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)							
Time	End Voltage	1.80V	1.75V	1.70V	1.65V	1.60V	
15	min	238	254	269	285	300	
30	min	176	181	187	192	197	
45	min	135	138	140	143	145	
60	min	109	111	114	116	118	
180	min	48	48.8	49.5	50.3	51	
300	min	32.1	32.3	32.6	32.8	33	
600	min	18	18.1	18.2	18.3	18.4	

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

min

min

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

94

62

Aug2020

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.