STANDBY LONG LIFE POWER





12TP160FT-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS					
Nominal Voltage		12V			
Nominal Capacit	y				
20 hour rate	(7.6A to 10.5V)	152Ah			
10 hour rate	(15A to 10.8V)	150Ah			
5 hour rate	(25.5A to 10.2V)	127.5Ah			
1 hour rate	(90A to 9.6V)	90Ah			
1C	(150A to 9.6V)	75Ah			
Weight		Approx. 45kg			
Internal Resistant	ce (at 1KHz)	Approx. 4.5mΩ			
Maximum Discha	rge Current (5 secs)	1500A			

Charge Methods at	25°C
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Cycle Use Charging Voltage 14.4V to 15.0V Coefficient -5.0mV/°C/Cell Maximum Charging Current 45.6A 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 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)

Barcode

• Sea (per IMDG Special Provision 238)

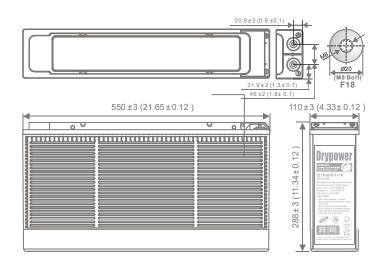
12 Years

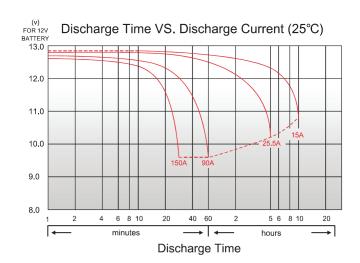




DIMENSIONS

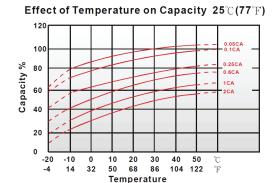
mm (inch)





Drypower

CHARACTERISTICS CHARTS



Cycle Service Life

(4) Temperature: 25±2°

(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

120

80

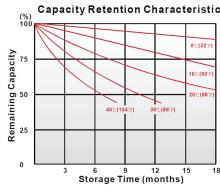
60

40

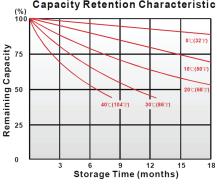
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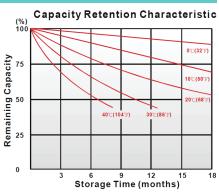
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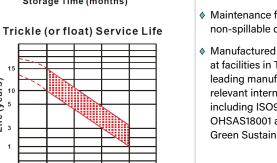
Capacity %



Life (years)







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	330	405	456	489	499	509	520
30	min	197	241	272	291	297	303	310
60	min	164	175	182	186	187	188	189
120	min	88.3	93.2	95.8	98	98.8	99.7	101
180	min	70.2	73.8	76.5	78.5	79.2	80	80.8
240	min	57.5	60.3	62.2	63.7	64.2	64.8	65.5
300	min	48.8	51.2	52.6	53.2	53.4	53.6	53.8
480	min	32.4	33.3	34.6	35.5	35.8	36.1	36.4
600	min	29.3	30.2	30.8	31.1	31.3	31.5	31.7
1200	min	15	15.5	15.8	16	16.2	16.3	16.4

Ambient Temperature

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	187	217	241	261	275	288	298
30	min	107	132	148	159	162	165	169
60	min	82.7	89.9	92.7	94.8	95.6	96.4	97.5
120	min	43.7	49.6	52.1	53.9	54.6	55.4	56.4
180	min	33.4	37.2	39.1	40.5	41	41.6	42.3
240	min	27.4	30.1	31.4	32.4	32.7	33.1	33.5
300	min	22.7	24.3	25.5	25.9	26.2	26.4	26.6
480	min	15.90	17.3	17.5	17.7	17.9	18.1	18.3
600	min	14.4	15	15.1	15.2	15.3	15.4	15.5
1200	min	7.23	7.5	7.57	7.63	7.68	7.74	7.8

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

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

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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.