

Drypower

FRONT TERMINAL LONG LIFE RANGE
STANDBY LONG LIFE POWER



12V

190Ah

SLA

AGM

12TP190FT-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage		12V
Nominal Capacity		
20 hour rate	(9.5A to 10.5V)	190Ah
10 hour rate	(18.05A to 10.5V)	180.5Ah
8 hour rate	(22.23A to 10.5V)	177.84Ah
5 hour rate	(32.30A to 10.2V)	161.5Ah
Weight		Approx. 59.5kg
Internal Resistance (at 1KHz)		Approx. 3.5mΩ
Maximum Discharge Current (5 secs)		1140A
Charge Methods at 25°C		
Maximum Charging Current:		57A
Boost Charging Voltage		
Boost Charge Time		
Float Charging Voltage		
Coefficient -3.0mV/°C/cell		
Operating Temperature Range		
Charge		-15°C to 50°C*
Discharge		-15°C to 50°C
Storage		-15°C to 40°C
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: 20 N-m (204kgf-cm)

Design Life >12 Years

Classified as a non-spillable battery.

Approved for transportation by:

- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)



Barcode



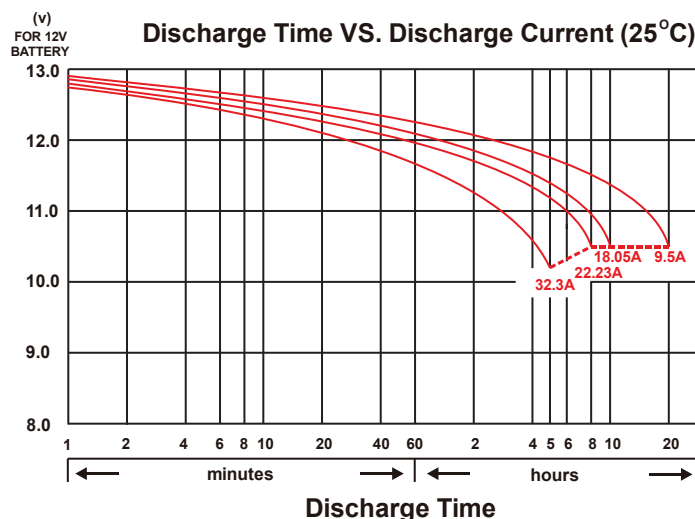
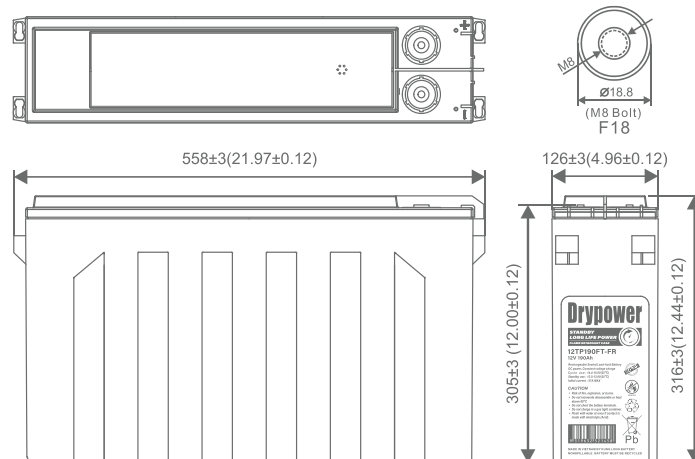
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UL94 V-0
FLAME RETARDANT
CASE

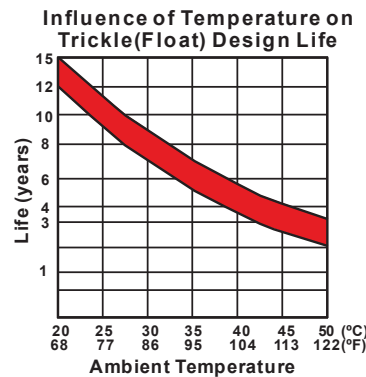
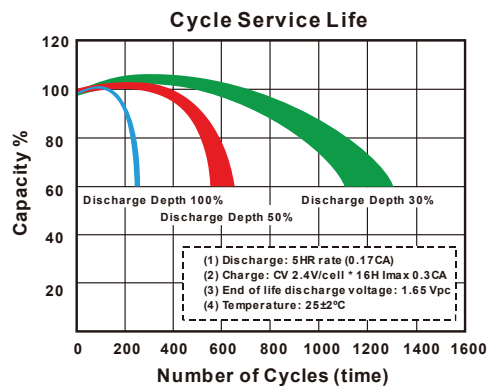
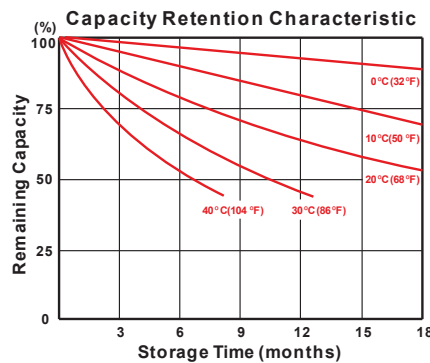
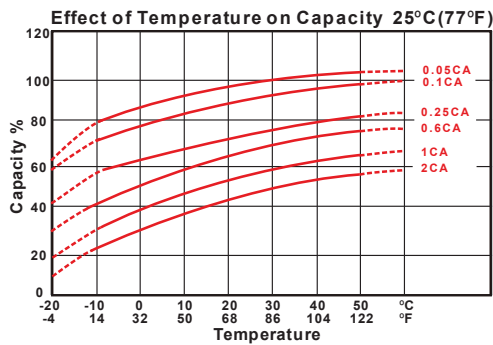
DIMENSIONS

mm (inch)



* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.

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.



PERFORMANCE DATA

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	693	792	881	921	950	980	1010
10	min	594	673	728	777	827	866	891
15	min	500	569	629	683	708	723	733
30	min	396	426	450	465	470	475	477
60	min	252	260	267	269	270	271	272
120	min	144	152	159	166	171	175	178
180	min	96.7	107	110	112	114	115	116
240	min	77.1	85	89.5	90.8	91.6	92.4	93.2
300	min	66.1	68.9	70.3	71.5	72.7	73.5	74.2
480	min	43.8	45.6	46.6	47.3	47.9	48.4	48.7
600	min	34.5	35.7	36.5	36.8	36.9	37	37.1
1200	min	16.9	17.7	17.9	18	18	18	18

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

End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	371	436	495	520	545	564	584
10	min	307	366	411	450	477	490	500
15	min	262	302	342	366	386	401	413
30	min	198	228	248	257	267	275	282
60	min	126	136	144	147	149	151	153
120	min	71.2	74.9	77.2	78.7	79.9	81.1	82.2
180	min	50.1	52.8	54.4	55.5	56.6	57.2	57.8
240	min	38.2	40.2	41.5	42	42.5	42.9	43.2
300	min	32.1	33.3	34.1	34.6	35	35.2	35.5
480	min	21.1	22.3	22.5	22.6	22.7	22.8	22.9
600	min	17.8	19	19	19.1	19.1	19.2	19.2
1200	min	8.86	9.5	9.68	9.78	9.87	9.87	9.96

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

The tolerance range : X < 6min (+15%~-15%), 6min ≤ X < 10min (+12%~-12%), 10min ≤ X < 60min (+8%~-8%), X ≥ 60min (+5%~-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.