



12V

190Ah

SLA

AGM

12TP190FT-FR

Rechargeable AGM Sealed Lead Acid Battery

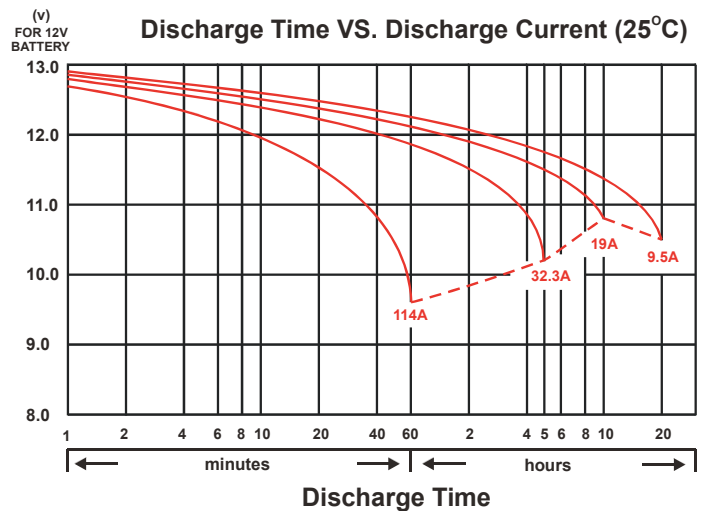
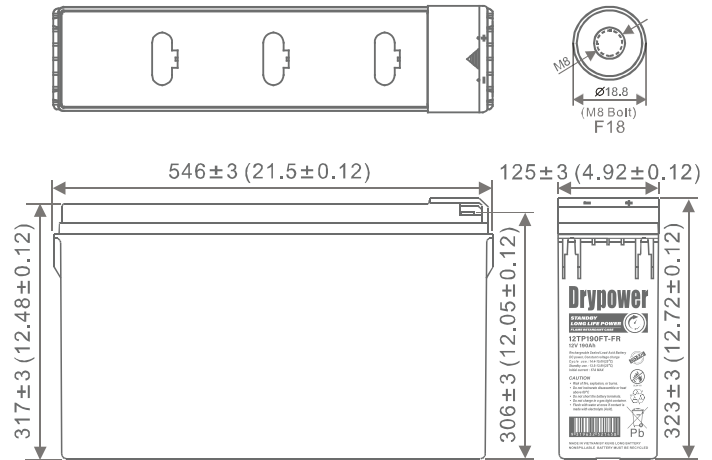
SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity		
20 hour rate (9.5A to 10.5V)	190Ah	
10 hour rate (19A to 10.8V)	190Ah	
5 hour rate (32.3A to 10.5V)	161.5Ah	
1 hour rate (114A to 9.6V)	114Ah	
Weight	Approx. 60kg	
Internal Resistance (at 1KHz)	Approx. 3.8mΩ	
Maximum Discharge Current (5 secs)	1140A	
Charge Methods at 25°C		
Cycle Use		
Charging Voltage	14.4V to 15.0V	
Coefficient -5.0mV/°C/Cell		
Maximum Charging Current	57A	
Standby Use		
Float Charging Voltage	13.5V to 13.8V	
Coefficient -3.0mV/°C/Cell		
Operating Temperature Range		
Charge	-10°C to 60°C	
Discharge	-20°C to 60°C	
Storage	-20°C to 60°C	
Charge Retention (Shelf Life) at 20°C		
1 month	98%	
3 months	94%	
6 months	85%	



DIMENSIONS

mm (inch)



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

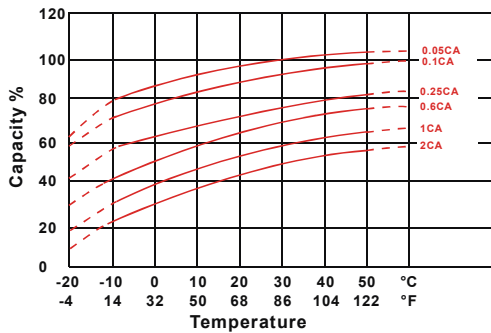
- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)



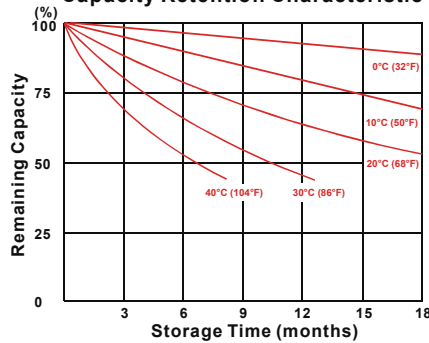
Barcode	 9319632521458
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CHARACTERISTICS CHARTS

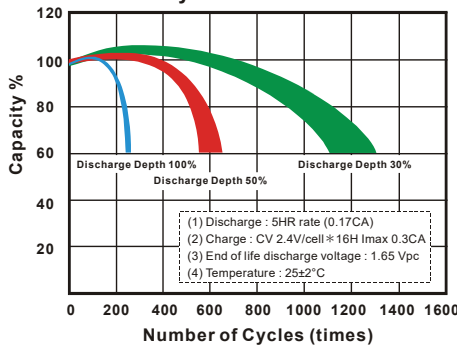
Effect of Temperature on Capacity 25°C (77°F)



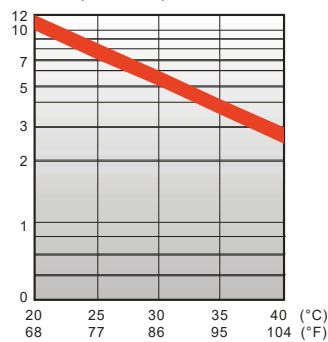
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



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	min	693	792	881	921	950	980	1010
10 min	min	594	673	728	777	827	866	891
15 min	min	500	569	629	683	708	723	733
30 min	min	396	426	450	470	485	500	510
60 min	min	252	260	267	269	270	271	272
120 min	min	144	152	159	166	171	175	178
180 min	min	96.7	107	110	112	114	115	116
240 min	min	77.1	85	89.5	90.8	91.6	92.4	93.2
300 min	min	66.1	68.9	70.3	71.5	72.7	73.5	74.2
480 min	min	43.8	45.6	46.6	47.3	47.9	48.4	48.7
600 min	min	34.5	35.7	36.5	36.8	36.9	37	37.1
1200 min	min	18	18.8	19	19.1	19.2	19.2	19.2

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	min	371	436	495	520	545	564	584
10 min	min	307	366	411	450	477	490	500
15 min	min	262	302	342	366	386	401	413
30 min	min	198	228	248	257	267	275	282
60 min	min	126	136	144	147	149	151	153
120 min	min	71.2	74.9	77.2	78.7	79.9	81.1	82.2
180 min	min	50.1	52.8	54.4	55.5	56.6	57.2	57.8
240 min	min	38.2	40.2	41.5	42	42.5	42.9	43.2
300 min	min	32.1	33.3	34.1	34.6	35	35.2	35.5
480 min	min	21.1	22.3	22.5	22.6	22.7	22.8	22.9
600 min	min	17.8	19	19	19.1	19.1	19.2	19.2
1200 min	min	9.43	10.1	10.3	10.4	10.5	10.5	10.6

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%)

Jan2025

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.