



12V

100Ah

SLA

AGM

12TP105HFT-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity		
20 hour rate (5.0A to 10.5V)	100Ah	
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. 30.4kg	
Internal Resistance (at 1KHz)	Approx. 3.7mΩ	
Maximum Discharge Current (5 secs)	600A	
Charge Methods at 25°C		
Cycle Use		
Charging Voltage	14.4V to 15.0V	
Coefficient -5.0mV/°C/Cell		
Maximum Charging Current	30A	
Standby Use		
Float Charging Voltage	13.5V to 13.8V	
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	F8 (M6 Bolt)	

Description of Torque Value of Hardware for the Terminals

Recommended Torque Value	M6: 7 N-m (71kgf-cm)
Max. Allowable Torque Value	M6: 9 N-m (92kgf-cm)

Design Life 12 Years

Classified as a non-spillable battery.

Approved for transportation by:

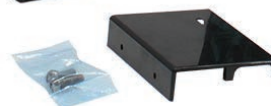
- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)



Barcode



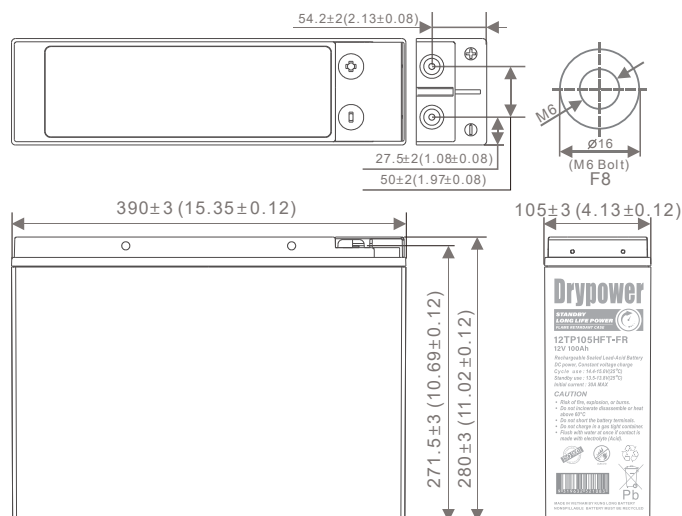
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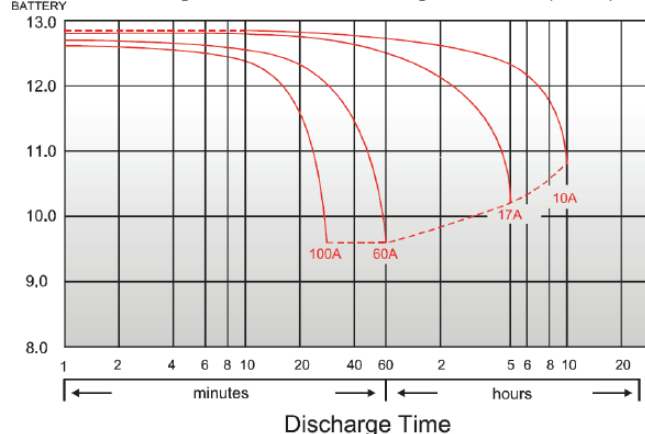
UL94 V-0
FLAME RETARDANT
CASE

DIMENSIONS

mm (inch)



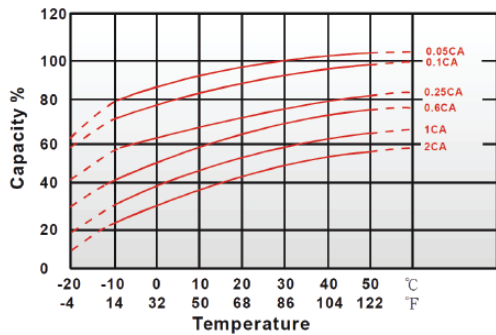
Discharge Time VS. Discharge Current (25°C)



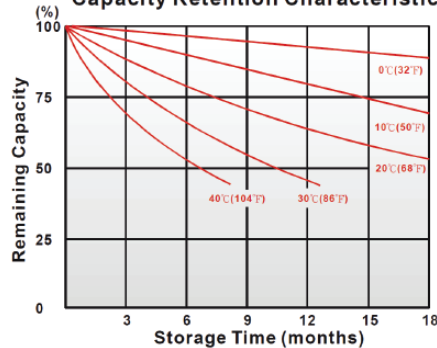
* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.

CHARACTERISTICS CHARTS

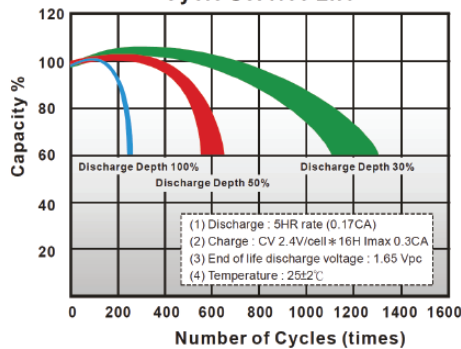
Effect of Temperature on Capacity 25°C(77°F)



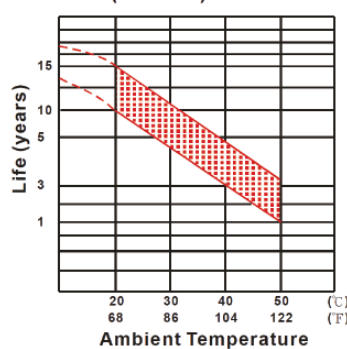
Capacity Retention Characteristic



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
Time								
5	min	417	464	502	532	551	563	572
10	min	331	369	393	411	423	433	440
15	min	265	294	314	329	338	346	352
20	min	235	255	268	273	277	281	284
30	min	190	203	212	216	220	223	225
60	min	116	120	123	126	128	130	132
90	min	77.5	81.7	84.5	86.2	86.7	87.2	87.4
120	min	58.6	66.6	71.9	73.8	75.2	76	76.7
180	min	47.1	49.2	51.1	52.6	53.9	55	56
240	min	36.4	38.8	41	41.8	42.2	42.5	42.8
300	min	27.1	30	31.8	32.7	33.5	34.2	34.7
480	min	21.5	22.8	23.5	24	24.5	25	25.4
600	min	17.7	18.7	19.5	20	20.4	20.6	20.7
1200	min	8.78	9.96	10.6	10.8	10.9	11	11.1

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
Time								
5	min	250	265	275	284	290	296	301
10	min	178	197	210	223	236	244	250
15	min	138	160	176	183	188	194	198
20	min	129	145	153	161	169	174	178
30	min	98.5	103	107	110	113	115	116
60	min	52.8	56.8	60	60.3	60.5	60.7	60.8
90	min	42.9	43.9	44.8	45.7	46.6	47.4	47.9
120	min	32.9	35.1	36.8	38	39	39.8	40.5
180	min	24.7	26	26.9	27.3	27.7	28	28.3
240	min	18.4	19.4	20	20.6	21.1	21.6	21.9
300	min	15.9	16.5	17.1	17.5	17.8	18.1	18.4
480	min	10.7	11.5	11.9	12.1	12.2	12.3	12.4
600	min	9.52	10	10.2	10.3	10.4	10.5	10.6
1200	min	4.78	5.01	5.12	5.18	5.23	5.28	5.32

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.