Drypower

HIGH TEMPERATURE LONG LIFE RANGE

HIGH TEMP LONG LIFE POWER

12V **104Ah** **SLA** **AGM**

12HT105FT-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage		12V
Nominal Capacity		
20 hour rate	(5.2A to 10.2V)	104Ah
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. 34kg
Internal Resistance (at 1KHz)		Approx. 4.3mΩ
Maximum Discharge Current (5 secs)		1000A
Charge Methods at 25°C		
Cycle Use		
Charging Voltage Coefficient -5.0mV/°C/Cell		14.4V to 14.7V
Maximum Charging Current		31.2A
Standby Use		
Float Charging Voltage Coefficient -3.0mV/°C/Cell		13.5V to 13.8V
Operating Temperature Range		
Charge		–15°C to 60°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: 15 N-m (153kgf-cm)
Design Life		12 Years

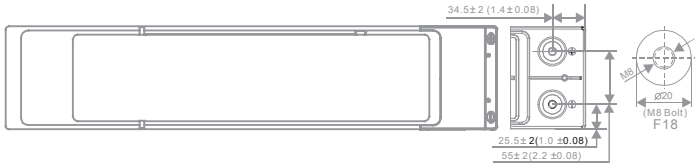
Classified as a non-spillable battery.
Approved for transportation by:
- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)

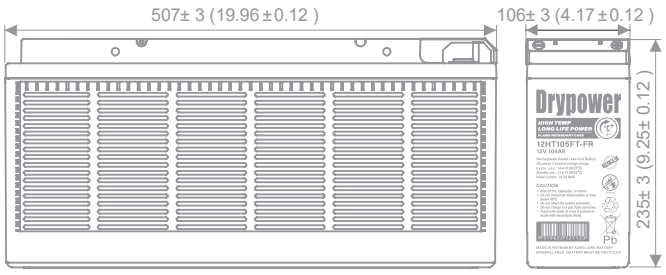
IATA

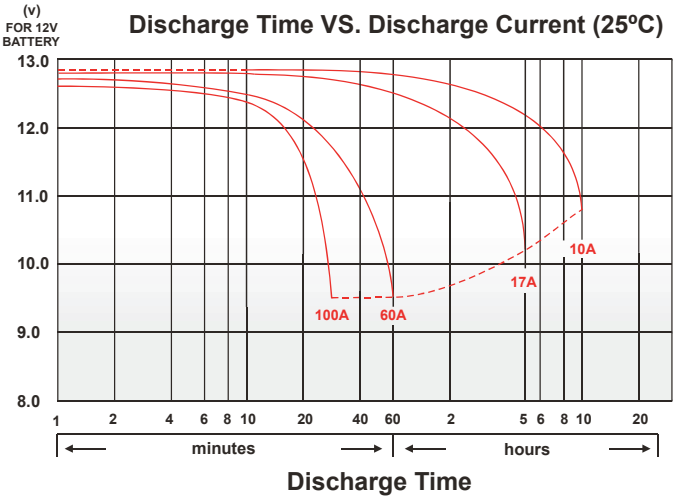
Barcode	9319632521120

UL94 V-0
FLAME RETARDANT CASE

DIMENSIONS mm (inch)

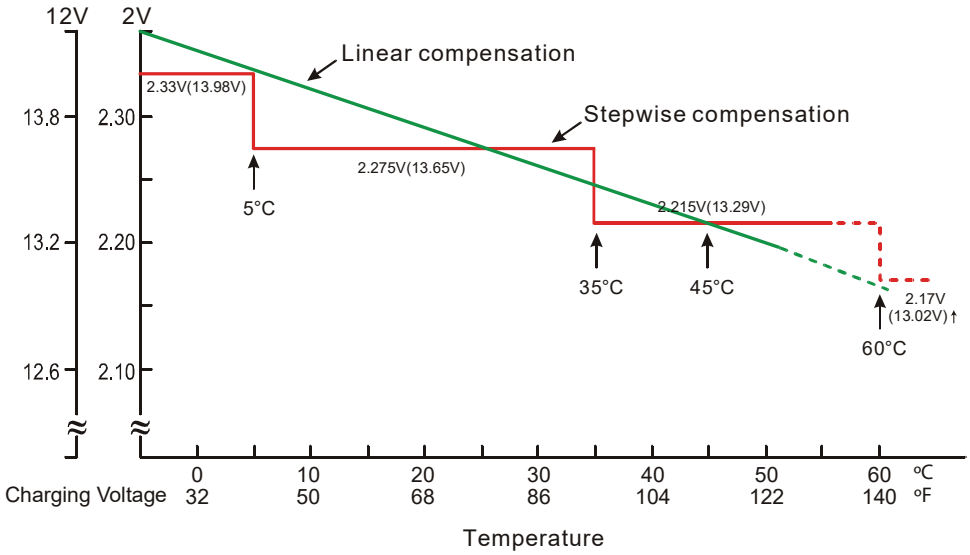






CHARACTERISTICS CHARTS

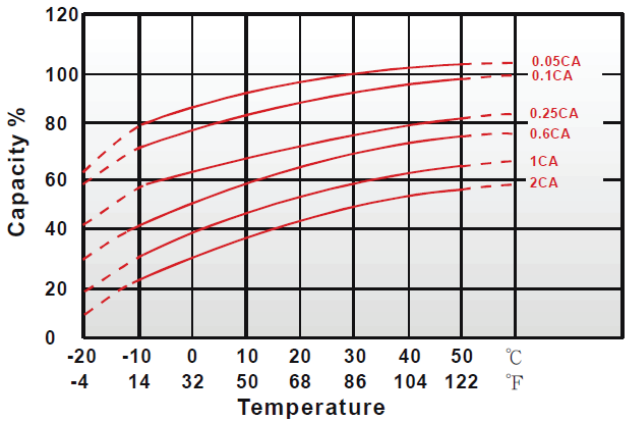
Relationship Between Temperature and Charging Voltage



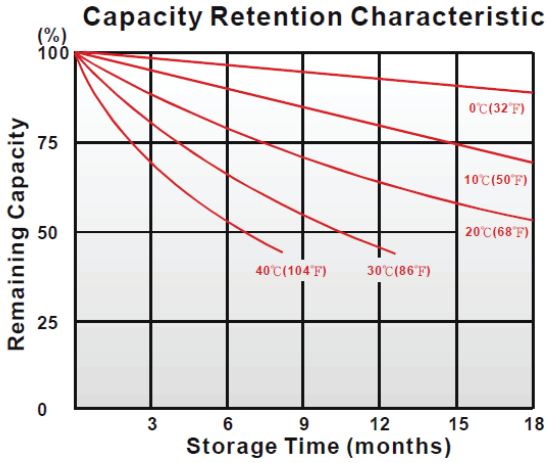
FEATURES & BENEFITS

- 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.
- Suitable for use in high temperature environments.
- 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.

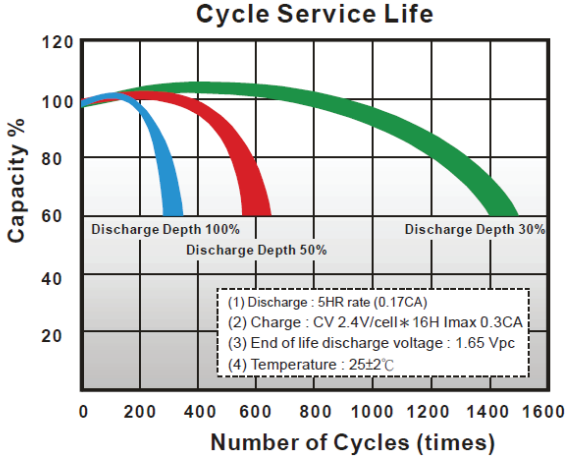
Effect of Temperature on Capacity 25℃(77℉)



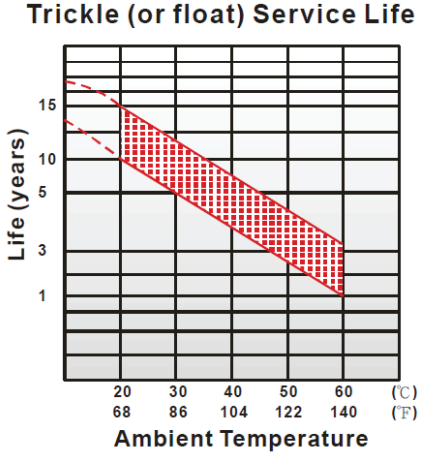
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



PERFORMANCE DATA

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	268	293	364	369	379	389	392
30	min	171	191	203	215	225	232	242
60	min	114	116	119	121	124	127	129
120	min	59.8	69.9	73.4	75.3	76.7	77.5	78.3
180	min	46.3	48.3	49.8	51.7	52.7	53.7	55
240	min	36	38.3	40.5	41.3	41.7	42	42.3
300	min	26.7	29.5	31.3	31.8	32.7	33.5	34.2
480	min	21.2	21.7	23	23.3	24	24.5	25
600	min	17.5	18.5	19.3	19.8	20.2	20.3	20.5
1200	min	8.7	9.8	10.5	10.7	10.8	10.8	11

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	135	153	189	190	194	198	202
30	min	100	105	109	112	115	118	125
60	min	60	66	67.2	68	68.9	69.4	70.1
120	min	34	36	36.6	37.3	37.8	38.5	39.8
180	min	25	26.4	26.7	27	27.4	27.8	28.2
240	min	18.2	19.1	20	20.3	20.5	20.8	21.1
300	min	15.8	16.4	17	17.3	17.7	18	18.3
480	min	10.50	11.3	11.7	11.9	12	12.1	12.2
600	min	9.5	10	10.1	10.2	10.3	10.4	10.5
1200	min	4.7	5	5.1	5.2	5.2	5.3	5.4

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%)

Aug2020