Drypower

EXTREME HIGH RATE
LONG LIFE for UPS

12V | 150W | SLA | UPS AGM

12SB150WHR-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage		12V
Nominal Power		
15 min rate		150W/cell to 1.67V/cell
Nominal Capacity		
20 hour rate	(2.0A to 10.50V)	40Ah
8 hour rate	(4.6A to 10.50V)	36.8Ah
5 hour rate	(6.8A to 10.20V)	34Ah
Weight		Approx. 13.32kg
Internal Resistance (at 1KHz)		Approx. 7.5mΩ
Maximum Discharge Current (5 secs)		480A
Short Circuit Current		2400A
Charge Methods at 25°C		
Maximum Charging Current		12A
Boost Charging Voltage		14.4V to 15.0V
Boost Charge Time		8-9 hrs
Float Charging Voltage Coefficient -3.0mV/°C/Cell		13.5V to 13.8V
Operating Temperature Range		
Charge		–15°C to 40°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		96%
6 months		94%
Case Material		UL94 V-0 Flame Retardant
Termination		F8 (M6 Bolt)
Torque Value of Terminal Hardware		
Recommended Torque Value		M6: 7 N-m (71kgf-cm)
Max. Allowable Torque Value		M6: 10 N-m (102kgf-cm)
Design Life		6-9 years

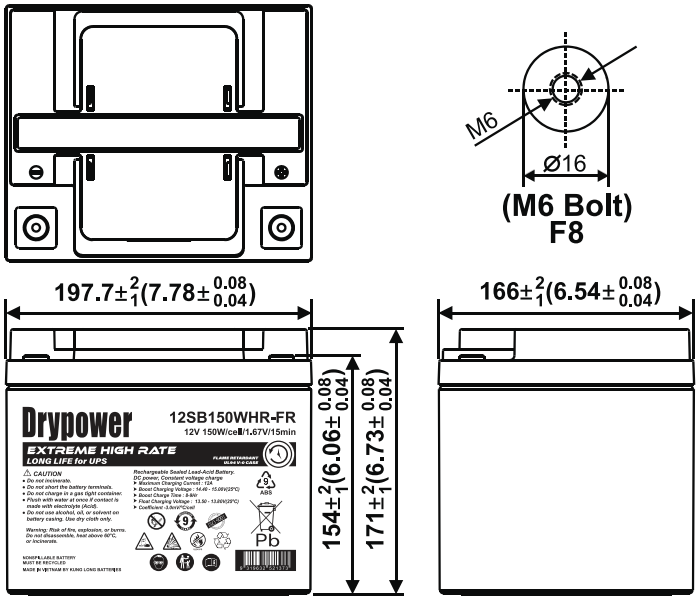
Classified as a non-spillable battery.
Approved for transportation by:
- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)

IATA

Barcode 9319632521373

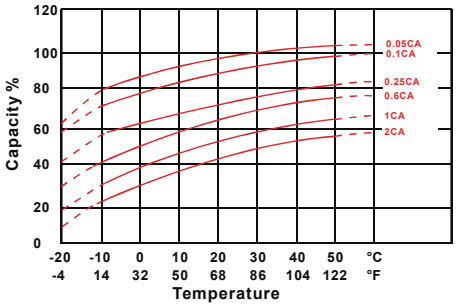
UL94 V-0
FLAME RETARDANT
CASE

DIMENSIONS mm (inch)

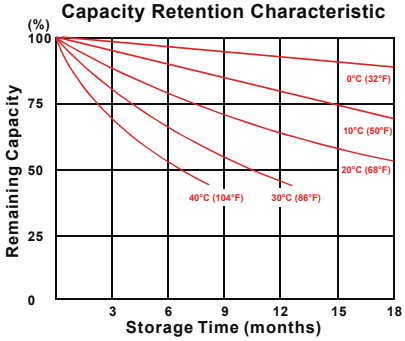


CHARACTERISTICS CHARTS

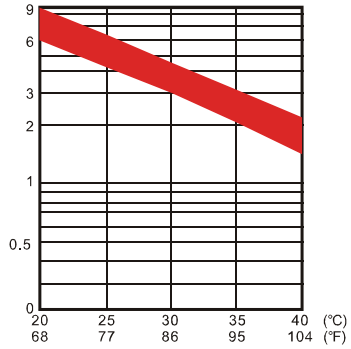
Effect of Temperature on Capacity 25°C (77°F)



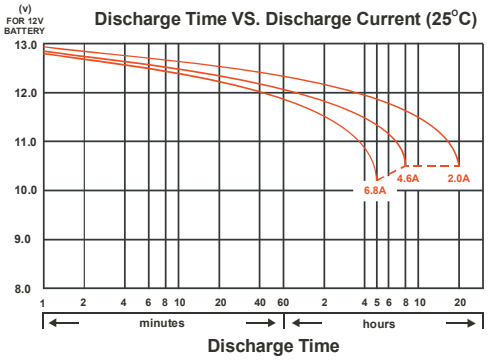
Capacity Retention Characteristic



Trickle (or float) Service Life



Discharge Time VS. Discharge Current (25°C)



FEATURES & BENEFITS

- Industry leading 99.99% pure lead content for superior service life and dependable performance.
- Specially formulated solder paste to ensure reliable power delivery.
- Maintenance free technology and non-spillable design.
- Special grid frame alloy design with outstanding anti-corrosion performance.
- Higher percentage of tin content compared with the industry standard. Tin extends battery standby life by minimising sulphation (corrosion) especially at higher temperatures.
- 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)

Time \ End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
5	min	204	215	227	230	232	235	237
10	min	166	178	196	198	200	203	205
15	min	141	147	154	157	160	161	162
20	min	111	116	122	123	123	124	125
30	min	83.9	87	90.8	92	93.1	93.8	94.5
45	min	65	69.9	73.1	75.9	77.5	78.1	78.5
60	min	54.8	55.7	56.8	58	59.3	60	60.8
90	min	41.4	41.7	42.4	43.3	44.5	44.6	44.9
120	min	32.5	32.8	33.6	33.8	34	34.1	34.3
180	min	22.8	23	23.4	23.6	23.8	23.9	24.1
240	min	17.3	17.6	17.9	18.3	18.4	18.6	19
300	min	14.4	15	15.2	15.3	15.4	15.4	15.5
480	min	9.46	9.67	9.89	9.94	10	10	10.1
1200	min	3.51	3.7	3.89	4.01	4.11	4.19	4.3

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
5	min	113	121	126	127	129	130	133
10	min	95	101	104	106	107	107	108
15	min	69	73.5	79.1	80	81	82	82.9
20	min	57.80	59.7	62.1	62.4	62.9	63.4	63.9
30	min	42.9	44.7	46.6	47	47.4	47.9	48.5
45	min	33.4	36.2	37.8	38.9	39.6	39.9	40.2
60	min	29.7	30.2	30.9	31.3	31.8	32.2	32.8
90	min	20.7	21	21.4	21.6	21.8	22	22.3
120	min	16.8	16.9	17	17.1	17.2	17.3	17.4
180	min	11.3	11.4	11.6	11.7	11.8	11.9	12.1
240	min	8.75	8.84	9.03	9.13	9.22	9.32	9.37
300	min	7.33	7.5	7.61	7.65	7.67	7.69	7.75
480	min	4.74	4.79	4.88	4.9	4.91	4.92	4.95
1200	min	2.12	2.14	2.25	2.26	2.27	2.28	2.28

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%)