Drypower

UPS POWER RANGE
HIGH RATE UPS POWER

12V | 33W | SLA | UPS AGM

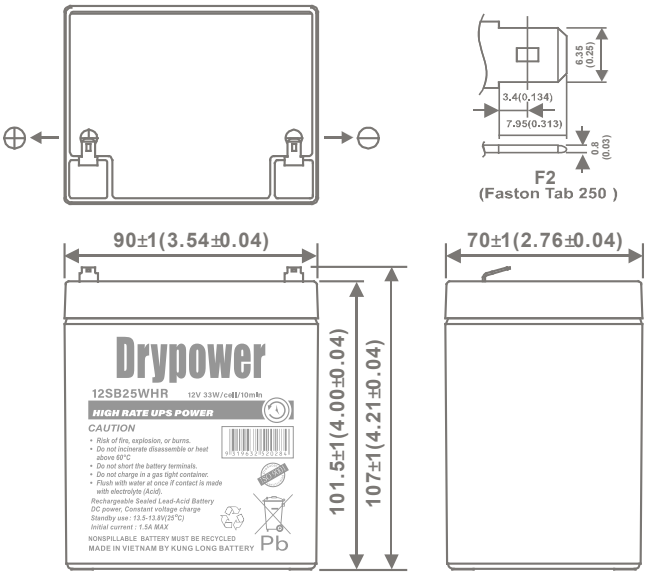
12SB25WHR

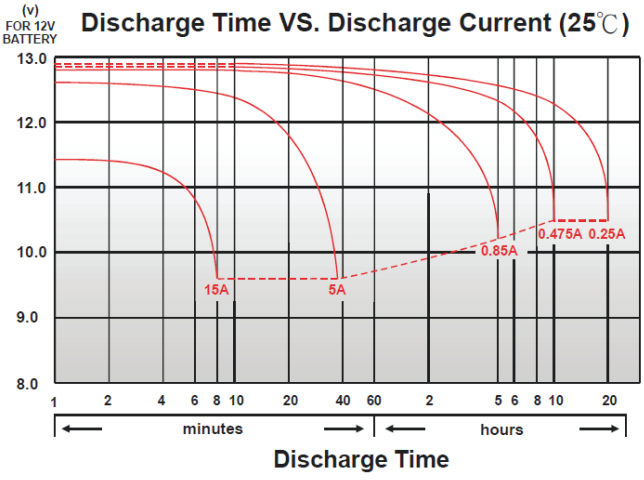
Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage		12V
Nominal Power		
10 min rate		33W/cell to 1.60V/cell
15 min rate		25W/cell to 1.60V/cell
Nominal Capacity		
20 hour rate	(0.250A to 10.50V)	5Ah
10 hour rate	(0.475A to 10.50V)	4.75Ah
5 hour rate	(0.850A to 10.20V)	4.25Ah
1C	(5A to 9.60V)	3.17Ah
3C	(15A to 9.60V)	2Ah
Weight		Approx. 1.93kg
Internal Resistance (at 1KHz)		Approx. 19mΩ
Maximum Discharge Current (5 secs)		75A
Charge Methods at 25°C		
Standby Use Float Charging Voltage Coefficient -3.0mV/°C/Cell		13.5V to 13.8V
Maximum Charging Current		1.5A
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		92%
3 months		90%
6 months		80%
Case Material		ABS UL94 HB
Termination		F2 (Faston Tab 250)
Design Life		3-5 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		9319632520284

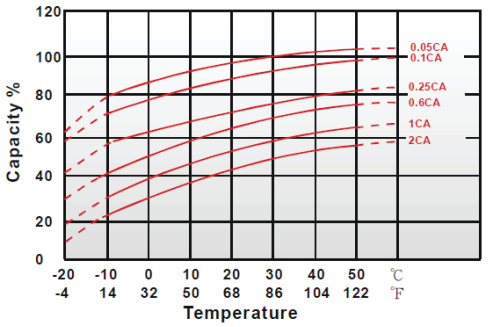
DIMENSIONS mm (inch)



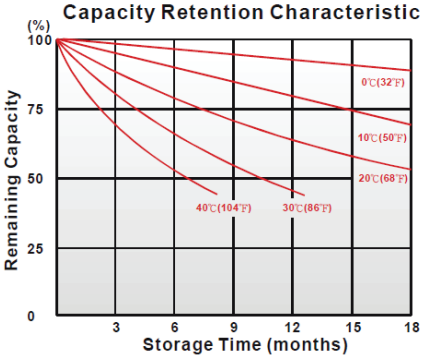


CHARACTERISTICS CHARTS

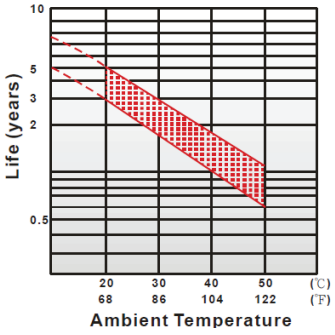
Effect of Temperature on Capacity 25℃(77℉)



Capacity Retention Characteristic



Trickle (or float) Service Life



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	37.1	39.8	42.8	45.7	46.8	48	49.3
10	min	26.2	28.3	29.8	31.2	31.5	32.2	33
15	min	22.2	23.7	24.3	24.7	24.8	25	25.1
30	min	12	12.7	13.1	13.3	13.4	13.5	13.6
60	min	5.97	6.45	6.7	6.93	7.05	7.15	7.28
120	min	3.15	3.63	3.85	3.98	4.03	4.1	4.2
180	min	2.43	2.65	2.85	3.03	3.1	3.15	3.25
240	min	1.97	2.18	2.3	2.37	2.4	2.43	2.48
300	min	1.77	1.88	1.98	2.03	2.05	2.07	2.1
600	min	1.02	1.1	1.16	1.19	1.19	1.2	1.22
1200	min	0.532	0.575	0.607	0.618	0.623	0.628	0.637

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	18.7	22.8	25.2	27.1	27.8	28.4	29.3
10	min	13.8	15	15.9	16.7	16.9	17.3	17.8
15	min	10.6	11.3	11.7	12	12.2	12.4	12.6
30	min	5.98	6.31	6.49	6.63	6.68	6.74	6.85
60	min	3.09	3.34	3.48	3.59	3.62	3.67	3.74
120	min	1.72	1.85	1.92	1.98	2.01	2.03	2.06
180	min	1.37	1.46	1.51	1.55	1.57	1.59	1.61
240	min	0.97	1.05	1.09	1.13	1.14	1.16	1.18
300	min	0.863	0.931	0.965	0.986	0.998	1.01	1.03
600	min	0.49	0.532	0.551	0.574	0.577	0.582	0.59
1200	min	0.257	0.291	0.297	0.302	0.304	0.307	0.311

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