Drypower

VRLA AGM CYCLIC RANGE

DEEP CYCLE POWER

12V | **30Ah** | **SLA** | **CYCLIC AGM**

12SB30C

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

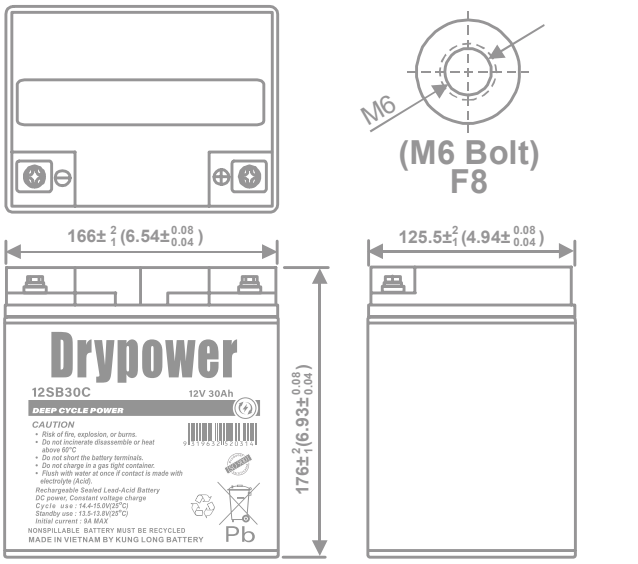
Nominal Voltage		12V
Nominal Capacity		
20 hour rate	(1.50A to 10.50V)	30Ah
10 hour rate	(2.85A to 10.50V)	28.5Ah
5 hour rate	(5.10A to 10.20V)	25.5Ah
1C	(30A to 9.60V)	17Ah
3C	(90A to 9.60V)	12Ah
Weight		Approx. 9.3kg
Internal Resistance (at 1KHz)		Approx. 9.5mΩ
Maximum Discharge Current (5 secs)		450A
Charge Methods at 25°C		
Cycle Use		
Charging Voltage Coefficient -5.0mV/°C/Cell		14.4V to 15.0V
Maximum Charging Current		9A
Standby Use		
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		92%
3 months		90%
6 months		80%
Case Material		ABS UL94 HB
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		3-5 years

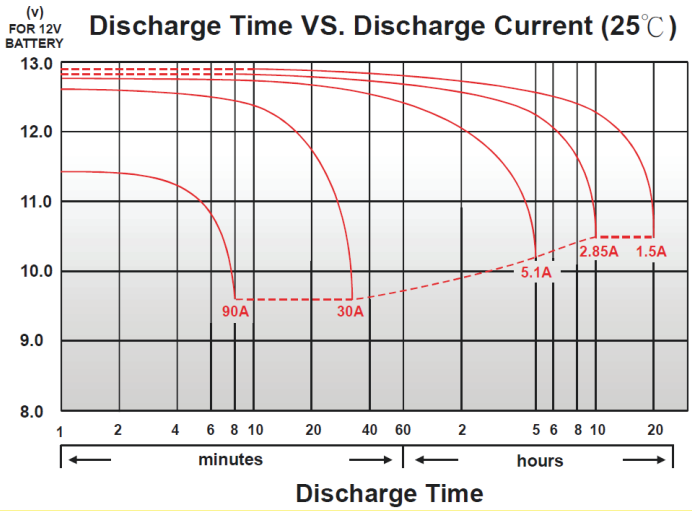
Classified as a non-spillable battery.
Approved for transportation by:
- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)

IATA

Barcode 9319632520314

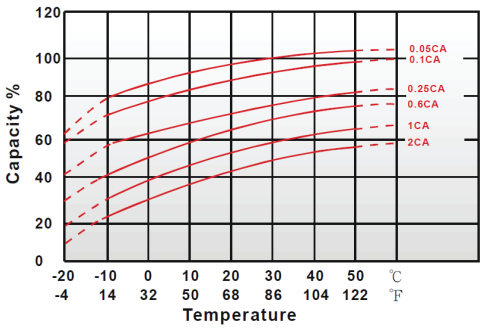
DIMENSIONS mm (inch)



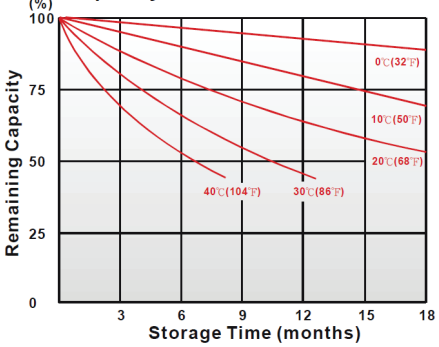


CHARACTERISTICS CHARTS

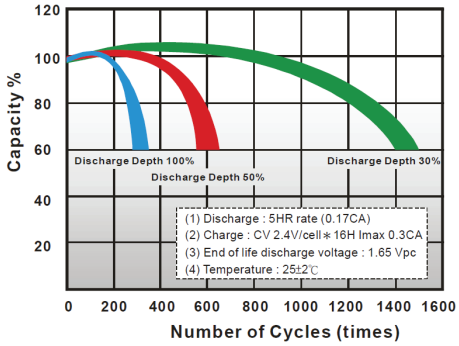
Effect of Temperature on Capacity 25℃(77℉)



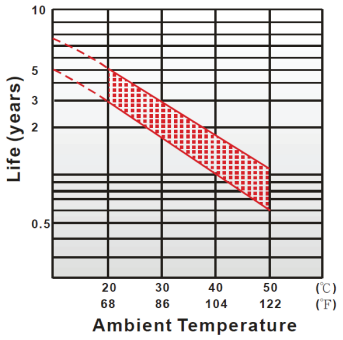
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



FEATURES & BENEFITS

- Industry leading 99.99% pure lead content for superior service life and dependable performance.
- Special grid frame alloy design with outstanding anti-corrosion performance.
- Maintenance free technology and non-spillable design.
- Suitable for use in any orientation (except inverted) for use in hard to reach locations.
- 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	145	167	183	188	195	201	210
10	min	111	120	128	132	136	139	144
15	min	90	96.7	105	107	109	111	113
30	min	56.7	59.9	61.8	62.7	63.3	64	64.5
60	min	36.5	37.3	38	38.3	38.7	39	39.3
120	min	21.8	22.3	23	23.2	23.3	23.5	23.7
180	min	16.2	16.5	16.7	16.8	17	17.2	17.3
240	min	12.4	12.7	13.1	13.2	13.3	13.4	13.6
300	min	10.4	10.6	10.7	10.8	11.00	11	11.1
600	min	5.92	6.08	6.22	6.23	6.25	6.27	6.28
1200	min	3.18	3.22	3.28	3.3	3.32	3.33	3.35

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	74.5	89.8	105	108	112	115	121
10	min	59.5	72.5	68.3	71	73.5	76.3	79.2
15	min	46.5	50	54.3	55.7	57	58.3	59.8
30	min	29	30.5	31.9	32.6	33.1	33.5	34
60	min	17	17.8	18.6	19	19.4	19.6	19.8
120	min	11	11.5	11.9	12	12.1	12.2	12.3
180	min	7.7	7.85	8.1	8.21	8.3	8.37	8.46
240	min	6.15	6.22	6.36	6.4	6.45	6.51	6.58
300	min	5.1	5.18	5.3	5.38	5.42	5.46	5.51
600	min	2.91	2.97	3.06	3.07	3.08	3.09	3.1
1200	min	1.53	1.56	1.6	1.61	1.62	1.63	1.63

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