Drypower

VRLA AGM CYCLIC RANGE

DEEP CYCLE POWER

12V | **36Ah** | **SLA** | **CYCLIC AGM**

12SB36C

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

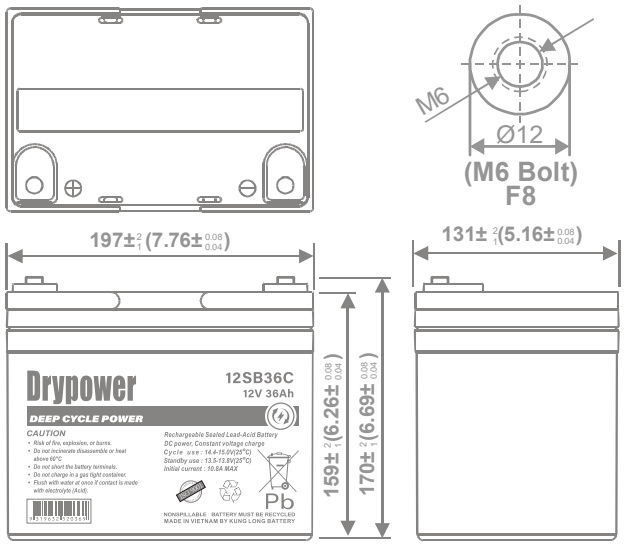
Nominal Voltage		12V
Nominal Capacity		
20 hour rate	(1.80A to 10.50V)	36Ah
10 hour rate	(3.42A to 10.50V)	34.2Ah
5 hour rate	(6.12A to 10.20V)	30.6Ah
1C	(36A to 9.60V)	20.4Ah
3C	(108A to 9.60V)	14.4Ah
Weight		Approx. 10.7kg
Internal Resistance (at 1KHz)		Approx. 8mΩ
Maximum Discharge Current (5 secs)		540A
Charge Methods at 25°C		
Cycle Use		
Charging Voltage Coefficient -5.0mV/°C/Cell		14.4V to 15.0V
Maximum Charging Current		10.8A
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

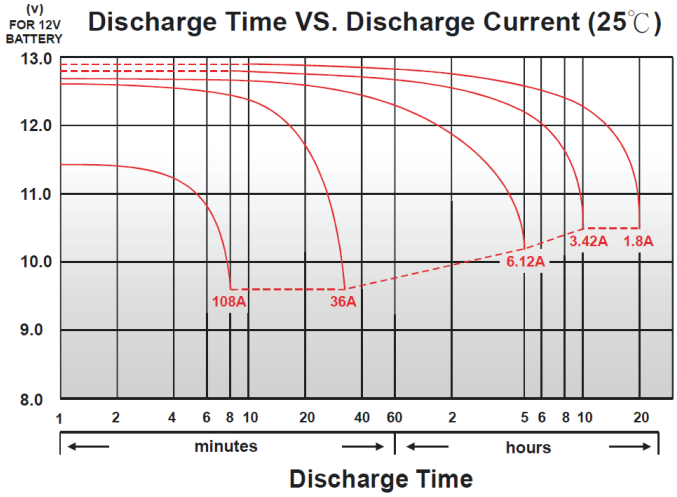
Classified as a non-spillable battery.
Approved for transportation by:
- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)

IATA

Barcode 9319632520369

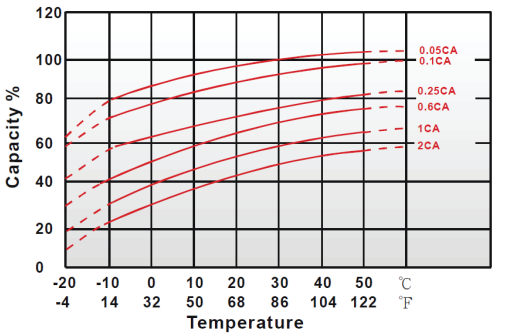
DIMENSIONS mm (inch)



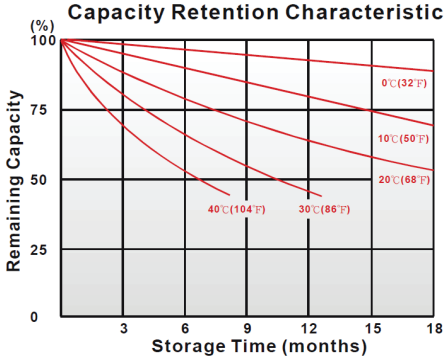


CHARACTERISTICS CHARTS

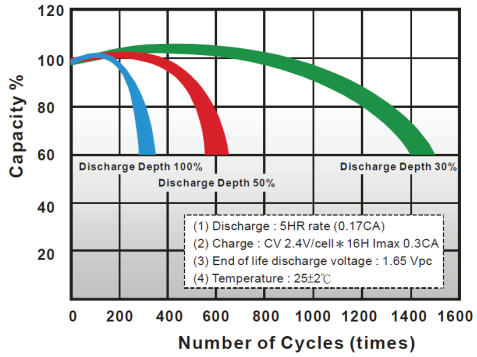
Effect of Temperature on Capacity 25℃(77℉)



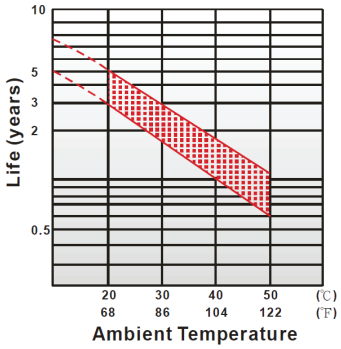
Capacity Retention Characteristic



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	175	188	203	215	221	226	235
10	min	134	142	150	158	163	167	174
15	min	117	123	127	131	133	136	139
30	min	73.7	76.2	77.7	79	79.7	80.5	81.8
60	min	44.2	45.7	46.7	47.5	47.8	48.2	48.7
120	min	24.3	25.5	26.3	27	27.2	27.5	27.8
180	min	18.5	19.3	20	20.5	20.7	20.8	21
240	min	15	15.3	15.5	15.7	15.8	15.9	16
300	min	12.3	12.5	12.7	12.9	13.00	13	13.1
600	min	7.12	7.25	7.37	7.48	7.60	7.67	7.75
1200	min	3.63	3.75	3.83	3.92	3.95	3.98	4.03

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	93.3	104	115	124	128	132	139
10	min	69	74.3	79.4	84.2	86.7	89.4	93.9
15	min	60.8	63.7	64.9	66	66.4	66.9	67.6
30	min	37.3	38.9	39.8	40.6	41.1	41.4	42.1
60	min	20.6	21.7	22.6	23.4	23.7	24.1	24.5
120	min	11.7	12.3	12.8	13.2	13.3	13.5	13.7
180	min	8.89	9.21	9.42	9.61	9.68	9.75	9.83
240	min	7.38	7.52	7.59	7.64	7.66	7.69	7.73
300	min	6.27	6.38	6.43	6.48	6.5	6.52	6.55
600	min	3.52	3.59	3.64	3.68	3.69	3.71	3.73
1200	min	1.81	1.88	1.93	1.96	1.97	1.98	1.99

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