Drypower

VRLA AGM CYCLIC RANGE
DEEP CYCLE POWER

12V | **65Ah** | **SLA** | **CYCLIC AGM**

12SB65CL

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

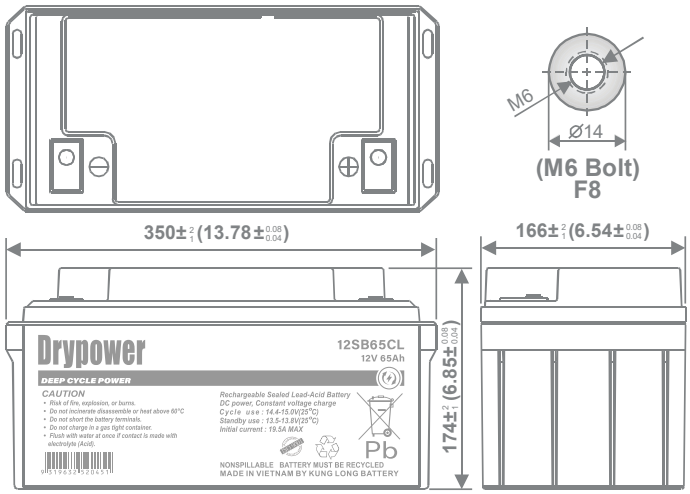
Nominal Voltage		12V
Nominal Capacity		
20 hour rate	(3.250A to 10.50V)	65Ah
10 hour rate	(6.175A to 10.50V)	61.75Ah
5 hour rate	(11.05A to 10.20V)	55.25Ah
1C	(65A to 9.60V)	36.83Ah
3C	(195A to 9.60V)	26Ah
Weight		Approx. 23.3kg
Internal Resistance (at 1KHz)		Approx. 5mΩ
Maximum Discharge Current (5 secs)		780A
Charge Methods at 25°C		
Cycle Use		
Charging Voltage Coefficient -5.0mV/°C/Cell		14.4V to 15.0V
Maximum Charging Current		19.5A
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		98%
3 months		94%
6 months		85%
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

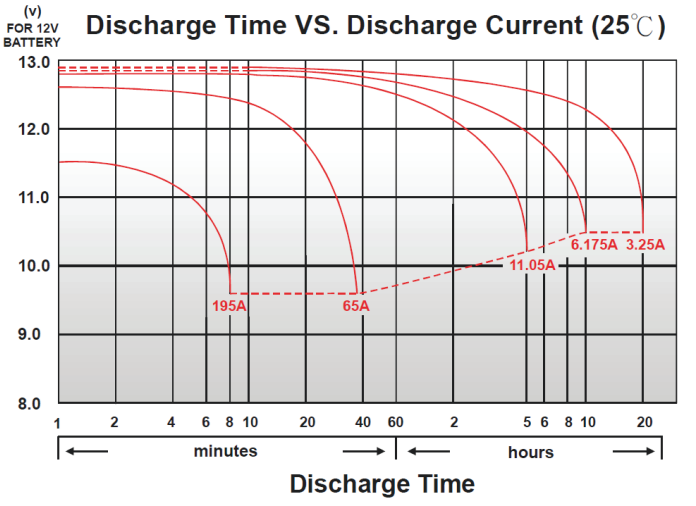
Classified as a non-spillable battery.
Approved for transportation by:
- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)

IATA

Barcode	9319632520451

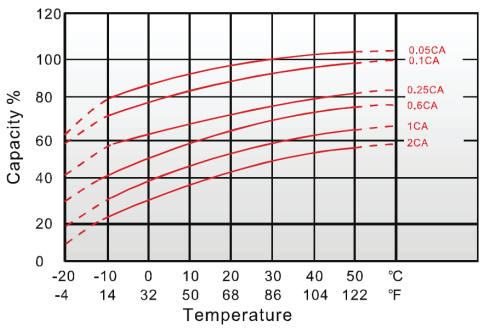
DIMENSIONS mm (inch)



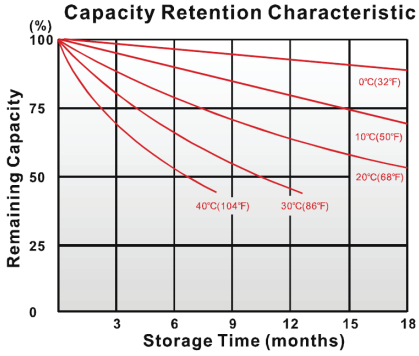


CHARACTERISTICS CHARTS

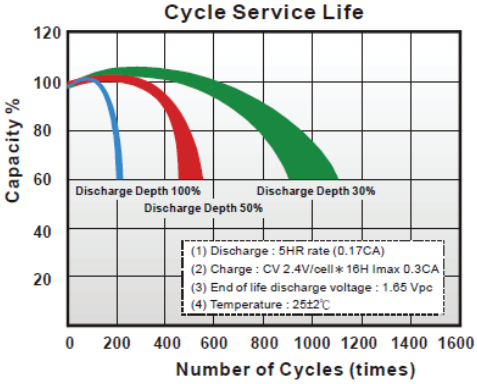
Effect of Temperature on Capacity 25℃(77℉)



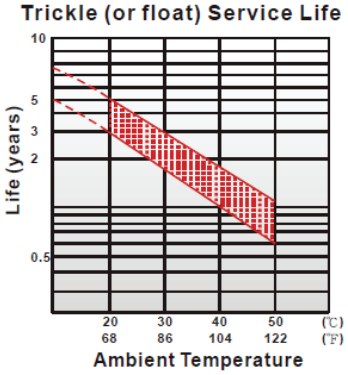
Capacity Retention Characteristic



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	322	461	543	589	601	614	627
10	min	206	296	348	378	385	394	403
15	min	152	209	241	259	264	269	274
30	min	96.5	109	116	122	124	127	130
60	min	78.7	81.5	82.7	83.5	84	84.7	85.5
120	min	46.7	49	50	50.5	50.7	50.8	51
180	min	33.2	35	36.2	36.8	37.2	37.5	38
240	min	27	28	28.8	29.5	29.7	30	30.3
300	min	23.2	23.6	23.9	24.3	24.4	24.6	24.8
600	min	13.3	13.9	14.2	14.4	14.5	14.6	14.8
1200	min	6.97	7.3	7.43	7.55	7.6	7.65	7.73

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	172	243	281	300	306	314	336
10	min	108	159	177	191	196	202	210
15	min	81.5	112	119	128	131	135	140
30	min	50.6	56	60	65.7	67.1	69.2	71.4
60	min	33.8	38.7	41.1	42.5	43	43.6	44.3
120	min	19.7	22.5	24.4	25.6	26	26.5	27.2
180	min	15	16.1	17.3	18.2	18.5	18.9	19.4
240	min	12.9	13.6	14	14.3	14.4	14.6	14.8
300	min	11.3	11.6	11.8	12	12.1	12.2	12.3
600	min	6.56	6.86	7	7.11	7.15	7.2	7.27
1200	min	3.49	3.6	3.67	3.73	3.76	3.79	3.82

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