## VRLA AGM CYCLIC RANGE

SLA

**50Ah** 

# Drypower

12V

## 12SB50C

**Rechargeable AGM Sealed Lead Acid Battery** 

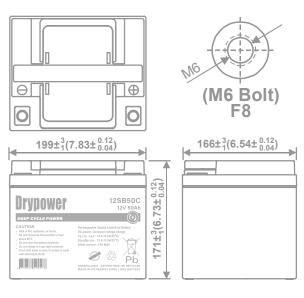
SPECIFICA	TIONS				
Nominal Voltage		12V			
Nominal Capacity					
20 hour rate	(2.50A to 10.50V)	50Ah			
10 hour rate	(4.75A to 10.50V)	47.5Ah			
5 hour rate	(8.50A to 10.20V)	42.5Ah			
1C	(50A to 9.60V)	28.33Ah			
3C	(150A to 9.60V)	20Ah			
Weight		Approx. 15.1kg			
Internal Resistance	e (at 1KHz)	Approx. 5mΩ			
Maximum Dischar	ge Current (5 secs)	600A			
Charge Methods a	it 25°C				
<b>Cycle Use</b> Charging Volta Coefficient -5.0r	14.4V to 15.0V				
Maximum Char	ging Current	15A			
<b>Standby Use</b> Float Charging Coefficient -3.0r	-	13.5V to 13.8V			
Operating Temper	ature 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	e Retention (Shelf Life) at 20°C ponth 98%				
3 months		94%			
6 months	ention (Shelf Life) at 20°C 98% 94% 85%				
Case Material		ABS UL94 HB			
Termination		F8 (M6 Bolt)			
Description of Torc	ue Value of Hardwar	e for the Terminals			
Recommended Max. Allowable		M6: 7 N-m (71kgf-cm) M6: 9 N-m (92kgf-cm)			
Design Life		3-5 years			
<ul><li>Approved for trans</li><li>Air (IATA/ICAO pr</li><li>Road</li></ul>					
Barcode					

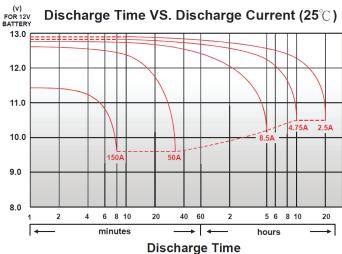


DIMENSIONS

mm (inch)

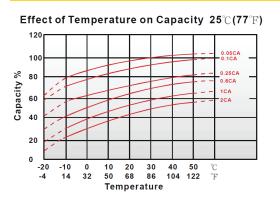
CYCLIC AGM

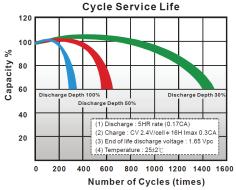




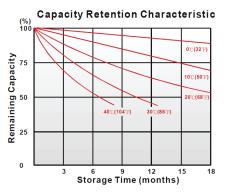
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### **CHARACTERISTICS CHARTS**

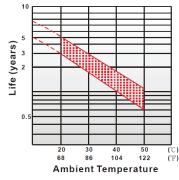




#### **PERFORMANCE DATA**



#### 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.



	End Voltage	1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
me 5	min	235	282	316	338	343	348	354
10	min	168	199	218	228	232	237	241
15	min	124	143	157	163	166	169	171
30	min	76.4	88	95.2	98.3	99.5	101	102
60	min	52.6	55.4	57	58.3	58.8	59.5	59.9
120	min	29.2	32	33.3	34.5	34.8	35.3	35.8
180	min	20.8	22.7	23.8	24.7	25	25.3	25.7
240	min	17.2	18.3	19	19.7	19.8	20.2	20.5
300	min	15.9	16.6	17	17.3	17.50	17.7	17.8
600	min	8.62	9.1	9.38	9.57	9.62	9.68	9.77
1200	min	4.58	4.87	5.05	5.17	5.2	5.25	5.3

Discharge Rates in Amperes to Various End Voltages at 25°C (77°F) End Voltage 1.65V 1.60V 1.85V 1.80V 1.67V 1.75V 1.70V Time 136 181 195 202 206 210 5 163 min 10 86.7 104 115 123 125 128 131 min 15 76.2 82.8 85.8 88.4 89.1 90 91 min 30 44.5 49.7 51.7 53.3 53.8 54.4 55.1 min 60 min 25.5 28.2 29.3 30 30.2 30.5 30.8 120 min 15.1 16.2 16.8 17.3 17.5 17.7 17.9 180 min 11 11.7 12.1 12.4 12.5 12.6 12.7 240 8.96 9.44 9.7 9.89 9.96 10.1 10.2 min 300 7.85 8.26 8.5 8.67 8.73 8.8 8.87 min 600 4.41 4.65 4.76 4.82 4.84 4.87 4.91 min 2.55 2.61 1200 min 2.32 2.44 2.5 2.57 2.59

All data on the spec. sheet is an average value:

The tolerance range : X < 6min (+15%~-15%), 6min  $\leq$  X < 10min (+12%~-12%), 10min  $\leq$  X < 60min (+8%~-8%), X  $\geq$  60min (+5%~-5%)

Performance may vary depending on application. All specifications are correct at time of creation. All specifications and operation conditions contained in this datasheet are subject to change or improvement without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.

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