



# 12SB110CLS-FR

**Rechargeable AGM Sealed Lead Acid Battery** 

### **SPECIFICATIONS**

Nominal Voltage		12V
Nominal Capacity	y	
20 hour rate	(5.44A to 9.60V)	108.8Ah
10 hour rate	(10A to 10.80V)	100Ah
5 hour rate	(17A to 10.20V)	85Ah
1 hour rate	(60A to 9.60V)	60Ah
1C	(100A to 9.60V)	63.33Ah
M		4

Weight	Approx. 30.0kg

Internal Resistance (at 1KHz)	Approx. 5mΩ

Maximum [	Discharge Current	15 secs	1200A
WIGALLIOTT L	nischange Content	10 3003	1200/

#### Charge Methods at 25°C

Cycle Use Charging Voltage Coefficient -5.0mV/°C/Cell	14.4V to 15.0V
Maximum Charging Current	33A
<b>Standby Use</b> Float Charging Voltage	13.5V to 13.8V

## Coefficient -3.0mV/°C/Cell **Operating Temperature Range**

Charge	-15°C to 40°C
Discharge	−15°C to 50°C
Storage	-15°C to 40°C
have Detention (Shelf Life) at 2000	

andrige Refention (Shelf Life) of 20°C	
1 month	98%
3 months	94%
6 months	85%

#### UL94 V-0 Flame Retardant **Case Material**

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

Classified as a non-spillable battery. Approved for transportation by:

- Air (IATA/ICAO provision A67)
- Road

Barcode

• Sea (per IMDG Special Provision 238)



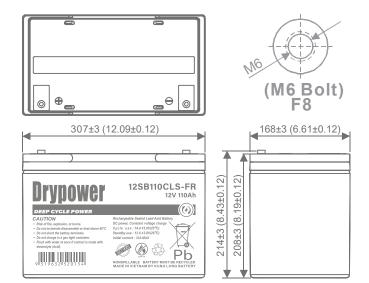
12 years

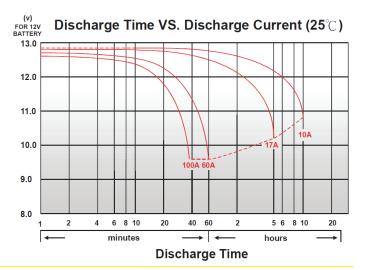




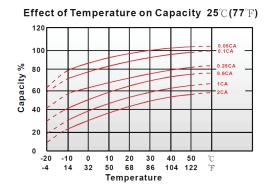
### **DIMENSIONS**

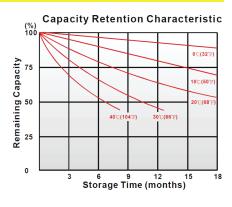
mm (inch)

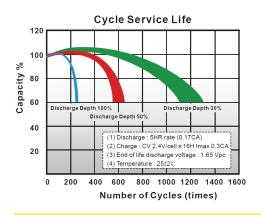


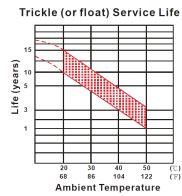


### **CHARACTERISTICS CHARTS**









### **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	432	491	527	561	577	598	625
10	min	402	436	463	488	497	510	521
15	min	310	345	373	385	389	395	403
30	min	218	235	248	252	254	255	257
60	min	130	136	140	142	143	144	145
120	min	68.3	71.6	74.2	74.9	75.6	76.4	77
180	min	52.6	54.5	55.5	56.6	57.1	57.8	58.8
240	min	35.1	36.8	39.2	41.2	41.8	42.6	43.2
300	min	33.8	35	36.7	37.1	37.20	37.4	37.7
600	min	18.9	19.6	19.9	20.2	20.30	20.5	20.7
1200	min	10.3	10.6	10.9	11.1	11.2	11.3	11.4

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	236	261	300	320	341	356	375
10	min	195	218	239	256	262	271	286
15	min	174	189	202	210	213	216	221
30	min	115	123	129	132	133	134	136
60	min	63.2	65.5	67.5	69.6	70.5	71.5	73.3
120	min	36.2	37.5	38.1	38.7	38.9	39.2	39.5
180	min	27.9	28.9	29.4	29.8	30	30.2	30.4
240	min	18.40	19.2	20.1	20.3	20.4	20.5	20.7
300	min	16.8	17.6	18.4	18.6	18.7	18.8	19
600	min	9.7	10	10.2	10.4	10.5	10.6	10.7
1200	min	5.07	5.22	5.36	5.39	5.4	5.42	5.44

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

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

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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.