Drypower

VRLA AGM CYCLIC RANGE

12V

110A

SLA



12SB110CLS-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	minal Voltage 12V			
Nominal Capacit	у			
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		

Weight Approx. 30.0kg

Internal Resistance (at 1KHz) Approx. $5m\Omega$

Maximum Discharge Current (5 secs) 1200A

Charge Methods at 25°C

Cycle Use
Charging Voltage 14.4V to 15.0V
Coefficient -5.0mV/°C/Cell

Maximum Charging Current 33A

Standby Use
Float Charging Voltage 13

Float Charging Voltage 13.5V to 13.8V Coefficient -3.0mV/°C/Cell

Operating Temperature Range

Charge -15° C to 40° CDischarge -15° C to 50° CStorage -15° C to 40° C

Charge Retention (Shelf Life) at 20°C

 1 month
 98%

 3 months
 94%

 6 months
 85%

Case Material UL94 V-0 Flame Retardant

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)



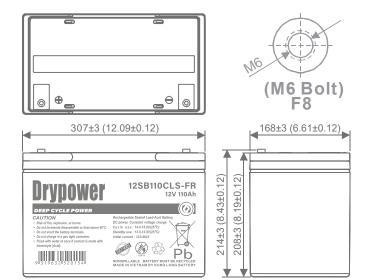
12 years

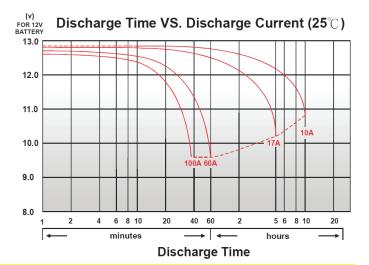




DIMENSIONS

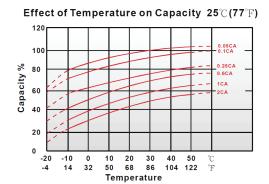
mm (inch)

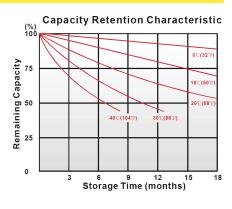


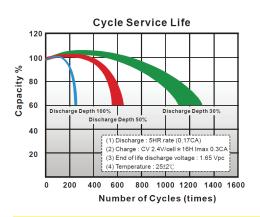


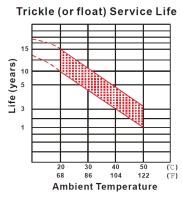
Drypower

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 \leq X < 10min (+12%~-12%), 10min \leq X < 60min (+8%~-8%), X \geq 60min (+5%~-5%)

Aug2020

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.