



2V

650Ah

SLA

AGM

2SB650HP-FR

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	2V	
Nominal Capacity		
20 hour rate	(32.5A to 1.75V)	650Ah
10 hour rate	(60A to 1.80V)	600Ah
5 hour rate	(102A to 1.75V)	510Ah
1 hour rate	(330A to 1.75V)	330Ah
1C	(600A to 1.60V)	360Ah
Weight	Approx. 35.7kg	
Internal Resistance (at 1KHz)	Approx. 0.5mΩ	
Maximum Discharge Current (5 secs)	3600A	
Charge Methods at 25°C		
Cycle Use		
Charging Voltage	2.33V to 2.36V	
Coefficient -5.0mV/°C/Cell		
Maximum Charging Current	195A	
Standby Use		
Float Charging Voltage	2.21V to 2.25V	
Coefficient -3.0mV/°C/Cell		
Operating Temperature Range		
Charge	-15°C to 50°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	UL94 V-0 Flame Retardant	
Termination	F18 (M8 Bolt)	

Description of Torque Value of Hardware for the Terminals

Recommended Torque Value	M8: 12 N-m (122kgf-cm)
Max. Allowable Torque Value	M8: 15 N-m (153kgf-cm)

Design Life 12-15 Years (at 20°C)

Classified as a non-spillable battery.

Approved for transportation by:

- Air (IATA/ICAO provision A67)
- Road
- Sea (per IMDG Special Provision 238)



Barcode



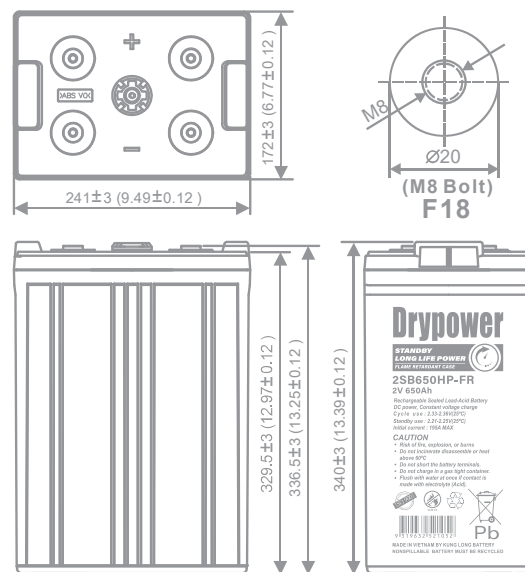
9319632521052



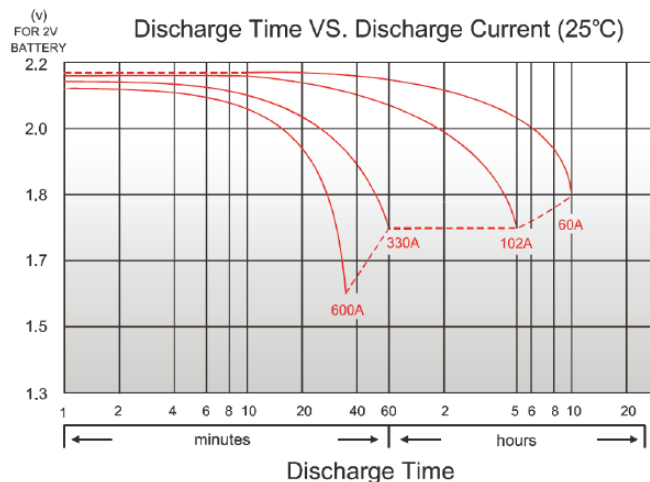
UL94 V-0
FLAME RETARDANT
CASE

DIMENSIONS

mm (inch)



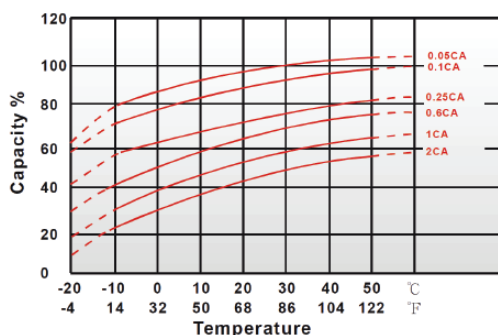
Discharge Time VS. Discharge Current (25°C)



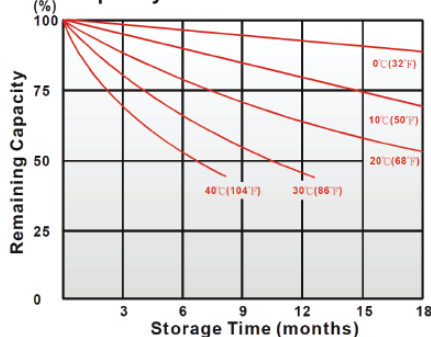
* If charging above 40°C, always use temperature-compensated charging (refer charge methods above). High temperature use accelerates ageing; as a general guide, service life halves for every 10°C sustained rise above 25°C. Consult the engineers at MI for more information if required.

CHARACTERISTICS CHARTS

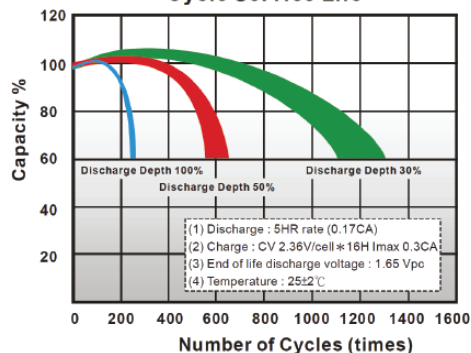
Effect of Temperature on Capacity 25°C (77°F)



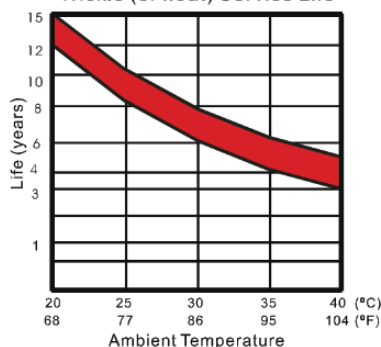
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



FEATURES & BENEFITS

- ◆ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ◆ Long service life to reduce maintenance and logistical costs across telecom, utilities and off-grid applications.
- ◆ Minimises sulphation with a thicker plate design and higher percentage of tin content to maximise battery standby life.
- ◆ High rate discharge capable to ensure reliable performance.
- ◆ Maintenance free technology and non-spillable design.
- ◆ 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.

