



12V

100Ah

SLA

AGM

## 12SLR100DC

Rechargeable AGM Sealed Lead Acid Battery

### SPECIFICATIONS

<b>Nominal Voltage</b>	12V	
<b>Nominal Capacity</b>		
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)	63.3Ah	
<b>Weight</b>	Approx. 34.5kg	
<b>Internal Resistance (at 1KHz)</b>	Approx. 5mΩ	
<b>Maximum Discharge Current (5 secs)</b>	1200A	
<b>Charge Methods at 25°C</b>		
<b>Cyclic Use</b>		
Charging Voltage	14.4V to 15.0V	
Coefficient -5.0mV/°C/Cell		
Maximum Charging Current	30A	
<b>Standby Use</b>		
Float Charging Voltage	13.5V to 13.8V	
Coefficient -3.0mV/°C/Cell		
<b>Operating Temperature Range</b>		
<b>Charge</b>	-15°C to 40°C	
<b>Discharge</b>	-15°C to 50°C	
<b>Storage</b>	-15°C to 40°C	
<b>Charge Retention (Shelf Life) at 20°C</b>		
1 month	98%	
3 months	94%	
6 months	85%	
<b>Case Material</b>	ABS UL94 HB	
<b>Termination</b>	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**      12 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**

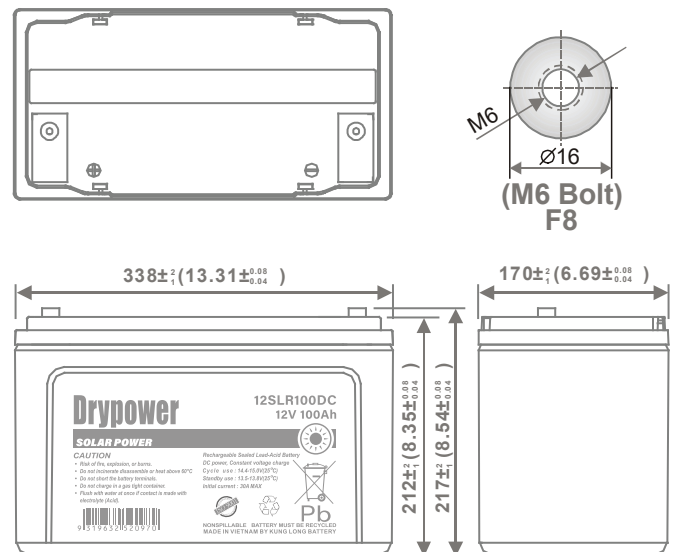


9319632520970

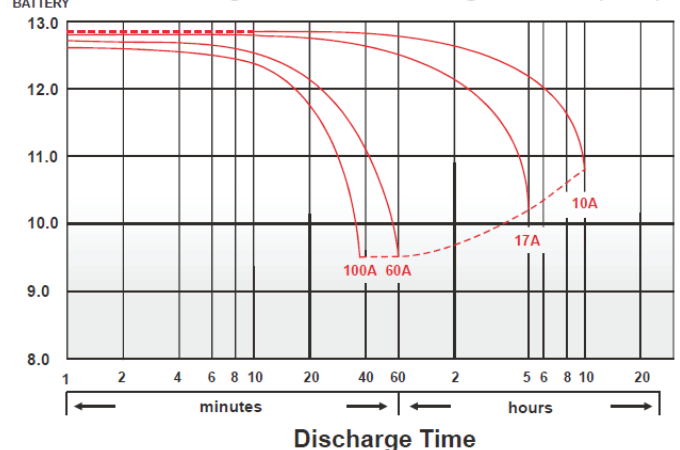


### DIMENSIONS

mm (inch)

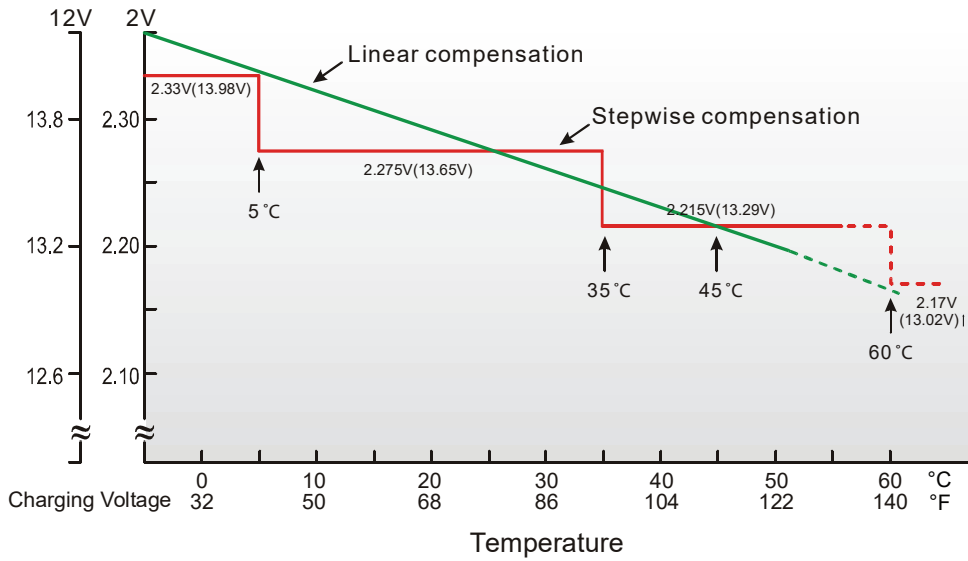


### Discharge Time VS. Discharge Current (25°C)



## CHARACTERISTICS CHARTS

### Relationship Between Temperature and Charging Voltage

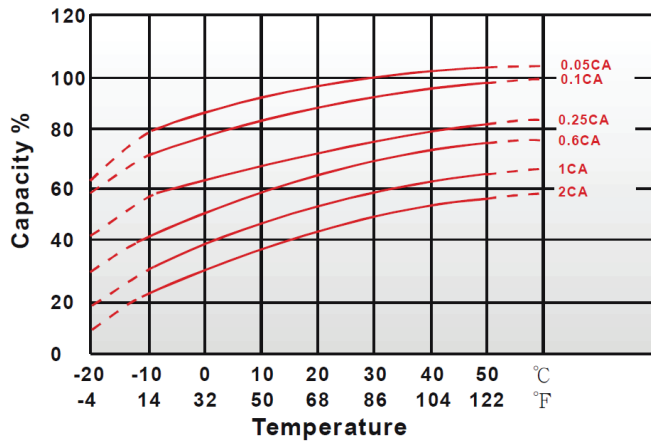


## FEATURES & BENEFITS

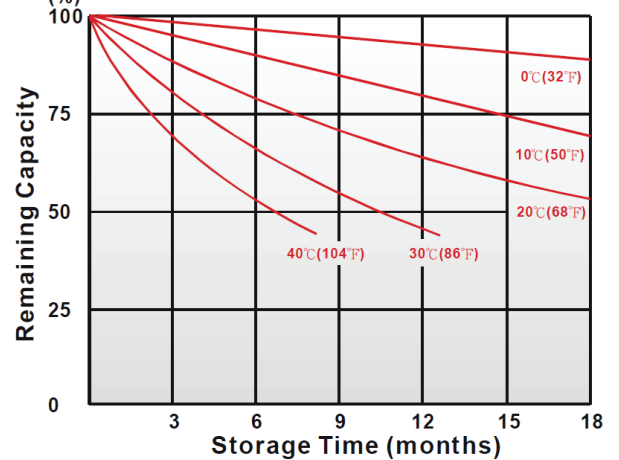
- ◆ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ◆ Higher percentage of tin content compared with the industry standard to extend battery standby life by minimising sulphation (corrosion) especially at higher temperatures.
- ◆ Robust plate construction to handle varying charge and discharge rates associated with solar systems.
- ◆ Maintenance free technology and non-spillable design.
- ◆ Extremely low self discharge characteristics.
- ◆ 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.



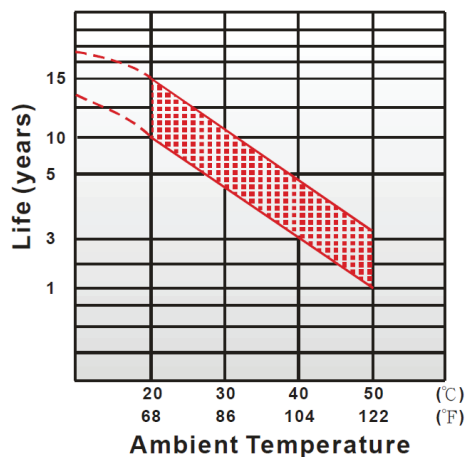
### Effect of Temperature on Capacity 25°C (77°F)



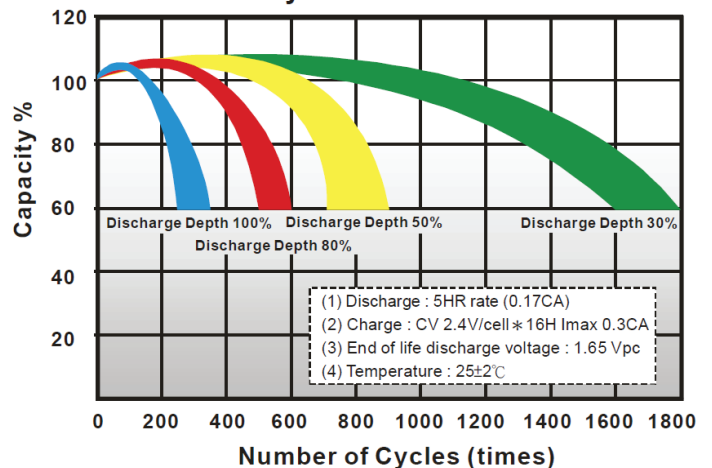
### Capacity Retention Characteristic



### Trickle (or float) Service Life



### Cycle Service Life



### PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C (77°F)								
End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
10	min	349	379	406	430	441	454	476
15	min	278	300	319	337	347	355	369
30	min	163	174	183	190	195	199	205
60	min	113	117	120	123	124	125	127
120	min	66.8	69.5	71.7	73.7	75.3	76.5	77.7
180	min	47.3	49.3	51.3	53.2	54.3	55.2	55.8
240	min	35.7	37.7	39.3	41	42.3	43.2	44
300	min	31.5	32.7	33.7	34.5	35.3	36	36.8
600	min	17.8	18.8	19.7	20.3	20.80	21.3	21.7
1200	min	10.4	10.8	11.1	11.3	11.3	11.3	11.5

Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)								
End Voltage		1.85V	1.80V	1.75V	1.70V	1.67V	1.65V	1.60V
Time								
10	min	167	195	216	233	240	249	264
15	min	124	144	164	175	182	191	201
30	min	74.9	83.6	93.9	102	107	111	115
60	min	45.7	50.7	56.8	59.2	63.2	64.3	65.2
120	min	27.1	29.8	32.9	35.8	38.2	40.3	42.1
180	min	22.6	23.8	24.7	25.8	26.2	26.6	27.3
240	min	18.4	19.2	19.9	20.4	20.7	21.2	21.7
300	min	16.30	17.1	17.6	17.8	17.9	18	18.2
600	min	9.72	10.1	10.3	10.5	10.6	10.7	10.8
1200	min	5.1	5.27	5.39	5.47	5.54	5.59	5.63

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

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