

12V

28Ah

SLA

AGM

12SB28TL

Rechargeable AGM Sealed Lead Acid Battery

SPECIFICATIONS	
Nominal Voltage	
Nominal Capacity	

Nominal Capacity		
20 hour rate	(1.40A to 10.50V)	28Ah
10 hour rate	(2.66A to 10.50V)	26.6Ah
5 hour rate	(4.76A to 10.20V)	23.8Ah
1C	(28A to 9.60V)	17.73Ah
3C	(84A to 9.60V)	11.2Ah

12V

Weight Approx. 9.18kg

Internal Resistance (at 1KHz) Approx. $9.4m\Omega$

Maximum Discharge Current (5 secs) 420A

Charge Methods at 25°C
Standby Use

Float Charging Voltage
Coefficient -3.0mV/°C/Cell

Maximum Charging Current

8.4A

Operating Temperature Range

 $\begin{array}{lll} \textbf{Charge} & -15^{\circ}\text{C to } 40^{\circ}\text{C} \\ \textbf{Discharge} & -15^{\circ}\text{C to } 50^{\circ}\text{C} \\ \textbf{Storage} & -15^{\circ}\text{C to } 40^{\circ}\text{C} \\ \end{array}$

Charge Retention (Shelf Life) at 20°C

1 month
92%
3 months
90%
6 months
80%

Case Material ABS UL94 HB

Termination F6 (M5 Bolt)

Description of Torque Value of Hardware for the Terminals

Recommended Torque Value M5: 5 N-m (51kgf-cm) Max. Allowable Torque Value M5: 5 N-m (61kgf-cm)

Design Life

Expected Trickle Design Life

6-9 years at 20°C

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

- Air (IATA/ICAO provision A67)
- Road

Barcode

• Sea (per IMDG Special Provision 238)

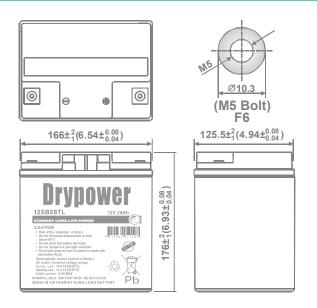


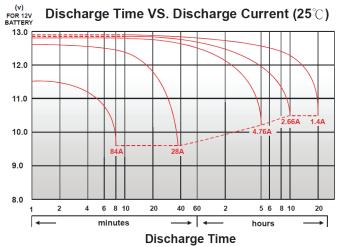
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DIMENSIONS

mm (inch)

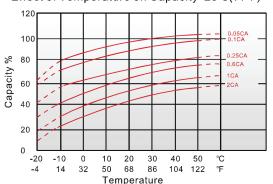




Drypower

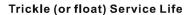
CHARACTERISTICS CHARTS

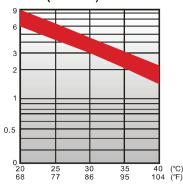
Effect of Temperature on Capacity 25°C(77°F)



Capacity Retention Characteristic

Storage Time (months)





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.









75 DD 50 40°C(104°F) 30°C(86°F) 20°C(88°F)

PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C (77°F)							
ime	End Voltage	1.85V	1.75V	1.70V	1.65V	1.60V	
5	min	153	164	172	183	194	
10	min	131	133	138	144	146	
15	min	103	105	108	110	112	
20	min	89.8	91	94.7	96.7	97.7	
30	min	62.4	64.4	66.3	67.4	98.5	
45	min	42.7	47.4	43.2	49.2	50.9	
60	min	36.8	41.4	42	42.5	43.5	
90	min	25	25.9	26	26.2	26.7	
120	min	19.8	21.1	21.3	21.5	21.7	
180	min	14.2	14.8	15	15.3	15.5	
240	min	11.9	12.1	12.2	12.3	12.5	
300	min	10.1	10.2	10.3	10.4	10.6	
480	min	6.8	7.2	7.28	7.53	7.68	
600	min	5.31	5.32	5.33	5.34	5.35	
1200	min	2.81	2.82	2.83	2.84	2.85	

Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)						
Time	End Voltage	1.85V	1.75V	1.70 V	1.65V	1.60V
5	min	83	88.5	93	99	105
10	min	70	71.2	73.5	76.8	78.3
15	min	53.6	54.7	56	57	58.1
20	min	46.8	47.3	48.9	49.9	50.5
30	min	32.2	33.3	34.1	34.9	36
45	min	22.1	23.9	24.6	25.3	26.2
60	min	18.7	21.2	21.7	22.2	22.9
90	min	12.8	13.2	13.6	13.8	14.1
120	min	10.2	10.7	10.8	10.9	11
180	min	7.11	7.42	7.52	7.62	7.73
240	min	5.92	5.97	6.2	6.31	6.42
300	min	4.98	5.11	5.15	5.2	5.22
480	min	3.38	3.47	3.49	3.53	3.55
600	min	2.62	2.66	2.67	2.68	2.69
1200	min	1.41	1.42	1.43	1.44	1.45

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

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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.