

Drypower Gel

PURE GEL TYPE
PURE GEL HIGH POWER



2V

520Ah

SLA

GEL
Deep Cycle

2PLG520TS

Rechargeable Pure Gel Lead Acid Battery

SPECIFICATIONS

Nominal Voltage	2V	
Nominal Capacity		
20 hour rate (26A to 1.75V)	520Ah	
10 hour rate (50A to 1.80V)	500Ah	
5 hour rate (85A to 1.70V)	425Ah	
1 hour rate (300A to 1.60V)	300Ah	
1C rate (500A to 1.60V)	250Ah	
Weight	Approx. 31kg	
Internal Resistance (at 1KHz)	Approx. 0.5mΩ	
Maximum Discharge Current (5 secs)	3000A	
Charge Methods at 25°C		
Cycle Use		
Charging Voltage	2.33V to 2.36V	
Coefficient -5.0mV/°C/Cell		
Maximum Charging Current	156A	
Standby Use		
Float Charging Voltage	2.21V to 2.25V	
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	
Charge Retention (Shelf Life) at 20°C		
1 month	98%	
3 months	94%	
6 months	85%	

Case Material	ABS UL94 HB
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 years
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Classified as a non-spillable battery.
Approved for transportation by:

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

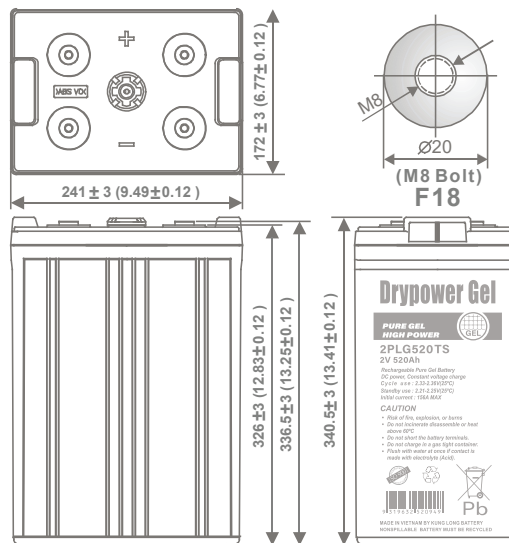


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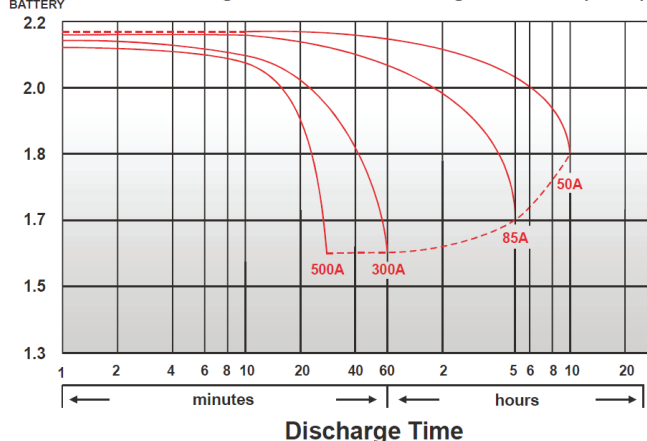


DIMENSIONS

mm (inch)

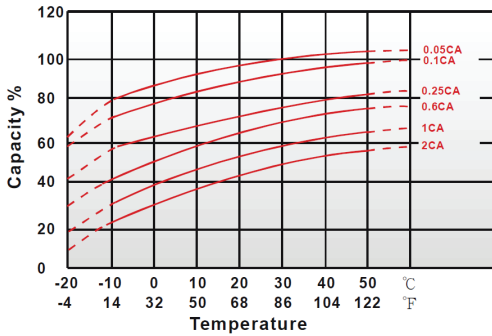


(V) FOR 2V BATTERY Discharge Time VS. Discharge Current (25°C)

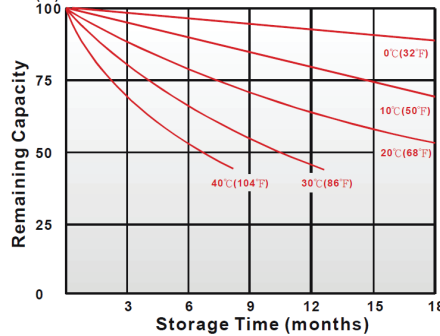


CHARACTERISTICS CHARTS

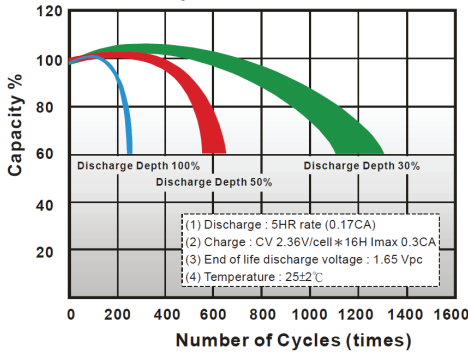
Effect of Temperature on Capacity 25°C (77°F)



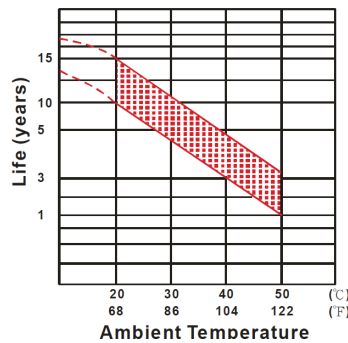
Capacity Retention Characteristic



Cycle Service Life



Trickle (or float) Service Life



FEATURES & BENEFITS

- ◆ Industry leading 99.99% pure lead content for superior service life and dependable performance.
- ◆ Gel compound contains more electrolyte that is more evenly distributed across the battery, producing stable output throughout its service life, minimising sulphation and significantly improving standby life.
- ◆ Low internal resistance for optimum charge and discharge efficiency.
- ◆ Maintenance free technology and non-spillable design.
- ◆ Better suited for more extreme operating 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)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V	
Time	20	min	850	931	1018	1078	1140	1203
	30	min	719	789	865	910	955	993
	60	min	492	525	569	581	598	608
	120	min	308	324	340	342	347	351
	180	min	232	242	254	261	271	277
	240	min	170	179	188	197	201	205
	300	min	149	158	164	169	173	176
	480	min	107	112	117	119	121	123
	600	min	90	92.2	94.1	96.9	97.9	98.8
	1200	min	49	50.5	51.7	52.3	52.7	53.1

Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

End Voltage		1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
Time	20	min	491	546	597	637	679
	30	min	398	447	498	542	612
	60	min	263	290	314	330	358
	120	min	162	183	200	207	221
	180	min	119	127	135	141	152
	240	min	101	107	112	115	121
	300	min	78	83.4	88.8	91.1	92.6
	480	min	56.00	57.9	59.6	60.2	61.2
	600	min	47.8	50	50.1	50.2	50.5
	1200	min	24.7	25.5	25.9	26.2	26.8

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

The tolerance range : X < 6min (+15%~-15%), 6min ≤ X < 10min (+12%~-12%), 10min ≤ X < 60min (+8%~-8%), X ≥ 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.