# TELONG ENERGY TECHNOLOGY CO., LTD. TELONG



# Specification for SEALED LEAD-ACID B A T T E R Y

Model: TL1245

Approved By	
Department	
Name	
Title	
Signature/Date	

(Remarks: The above table shall be filled by customer)

Issued by: \_\_\_\_Ming Cai\_\_\_\_

Checked by:\_\_\_\_Fu Xiang\_\_\_\_

Approved by: \_\_TieGang Dong\_

DATE: <u>2010-06-23</u>

### **TELONG ENERGY TECHNOLOGY CO., LTD.**

Building B, Anjia Industrial Zone, HuanGuan South Road, GuanLan Town, ShenZhen, China

TEL:+86-755-29052355 \ 29052353 FAX:+86-755-27981742

E-mail:telongbattery@sztlg.com

http://www.sztlg.com



The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position. GENERAL FEATURES

Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.

Not restricted for air transport-complies with IATA/ICAO Special Provision A67.

Can be mounted in any orientation.

Computer designed lead, calcium tin alloy grid for high power density.

Long service life, float or cyclic applications.

Maintenance-free operation.

Low self discharge.

Case and cover available in both standard and flame retardant ABS.

#### CONSTRUCTION

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

#### **TECHNOLOGY PARAMETER**

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Battery model	TL1245						
Nominal voltage		12	2V				
Number of cell		6					
Design Life	5 years						
Capacity	20 hour rate(0.225A,10.5V)	10 hour rate(0.445A,10.5V)	5 hour rate(0.85A,10.5V)	1 hour rate(3.6A,9.6V)			
(25℃)	4.5Ah	4.45Ah	4.25Ah	3.6Ah			
D: .	Length	Width	Height	Total Height			
Dimensions	90±1mm	70±1mm	101±1mm	107±1mm			
Approx. weight	1.4Kg						
Internal resistance	Full charged at 25°C: 33mOhms						
Self discharge	3% of capacity declined per month at 20°C (average)						
Operating temperature	Discharge	Cha	rge	Storage			
range	-20∼60℃	-10~	60°C	-20∼60°C			
Max. discharge current (25°C)	67.5A (5s)						
Short circuit current	240A						

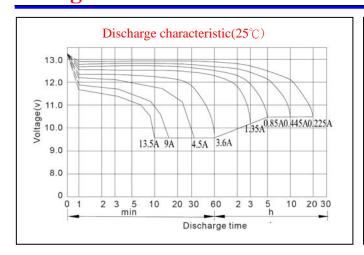


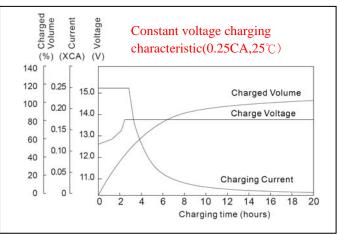
Charging Method

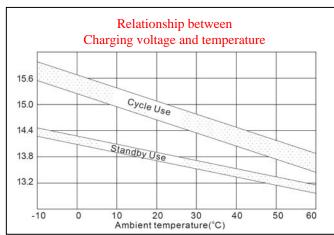
Charging Method(25°C)	Cycle use	Float use
Charge Voltage	14.6—14.9V	13.6—13.8V
Max Charge Current	1.8A	1.8A
Charging Time	12h(60%DOD)	>48h
	24h(100%DOD)	

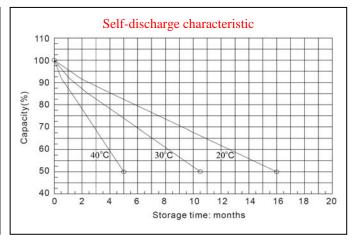
#### Depth of discharge

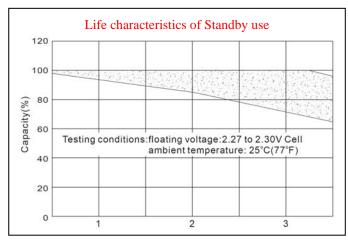
Time	Constan	t current dis	scharge cha	racteristics(	25℃) A	Constan	t power dis	charge cha	racteristics(	(25°C) ₩
1min	12.2	13.6	15.3	15.9	16.9	128	144	157	158	160
5min	9.90	11.9	12.7	13.3	14.2	112	119	136	138	141
15min	6.50	6.67	7.08	7.35	7.63	67.9	73.5	76.3	79.2	81.9
30min	4.20	4.25	4.36	4.43	4.52	46.5	47.7	48.6	50.8	52.0
45min	3.11	3.19	3.26	3.26	/	36.7	37.1	38.2	38.8	/
1hr	2.56	2.61	2.66	2.66	/	29.3	30.2	30.8	30.8	/
2hr	1.46	1.46	1.51	/	/	17.0	17.0	17.4	/	/
3hr	1.03	1.03	/	/	/	12.3	12.3	/	/	/
5hr	0.68	0.68	/	/	/	8.98	9.00	/	/	/
8hr	0.50	0.51	/	/	/	5.42	5.50	/	/	/
10hr	0.44	0.45	/	/	/	4.60	4.62	/	/	/
20hr	0.22	0.23	/	/	/	2.16	2.16	/	/	/
End Voltage	10.8	10.5	10.2	9.90	9.60	10.8	10.5	10.2	9.90	9.60
V										

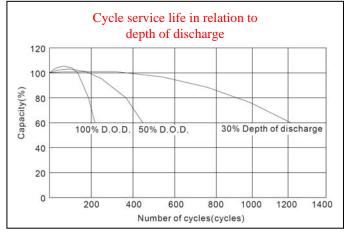


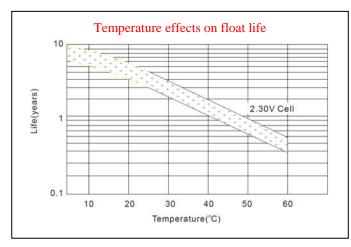


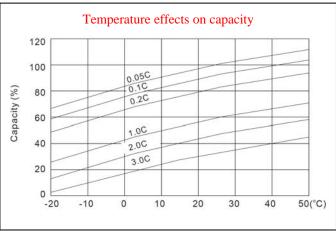




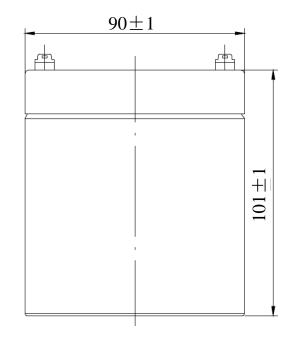


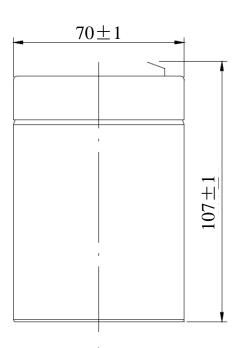


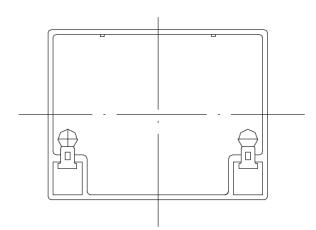


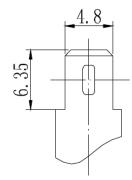


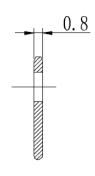
## **Battery and terminal dimensions**











Telong Energy Technology Co., Ltd.						
MODEL:TL1245	1245 DWG No.:TLG1245-01					
SCALE:NTS	DIM:mm	Approved by:				
DATE:2010.6.23	DRAWN BY: jia yu	Xiang Fu				