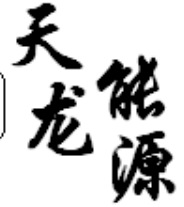
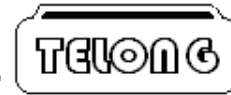


TELONG ENERGY TECHNOLOGY CO., LTD.



Specification
for SEALED LEAD-ACID BATTERY

Model: TL640

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: 2010-06-23

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

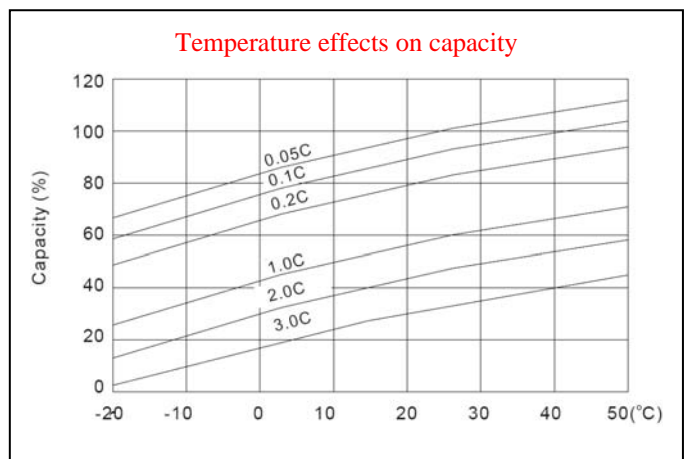
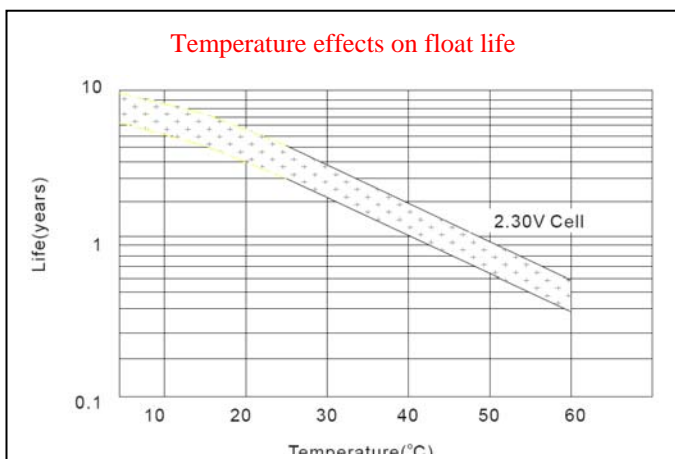
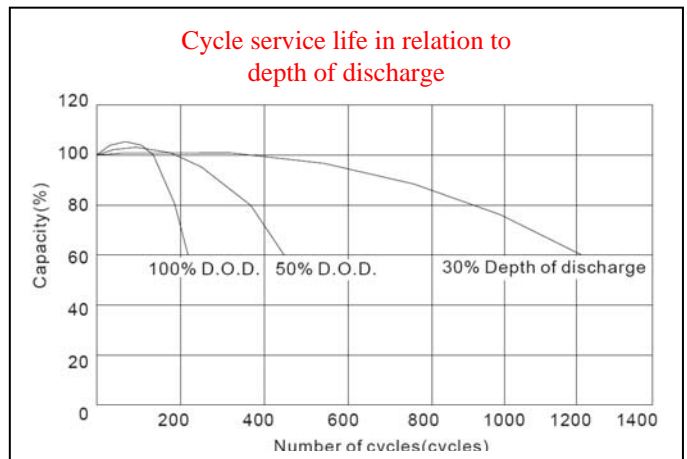
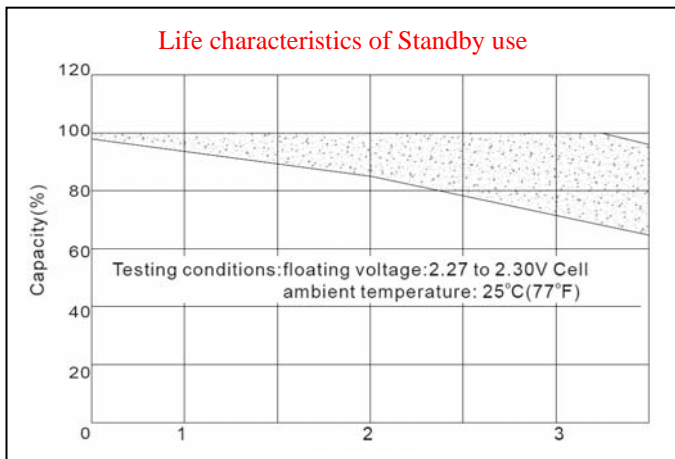
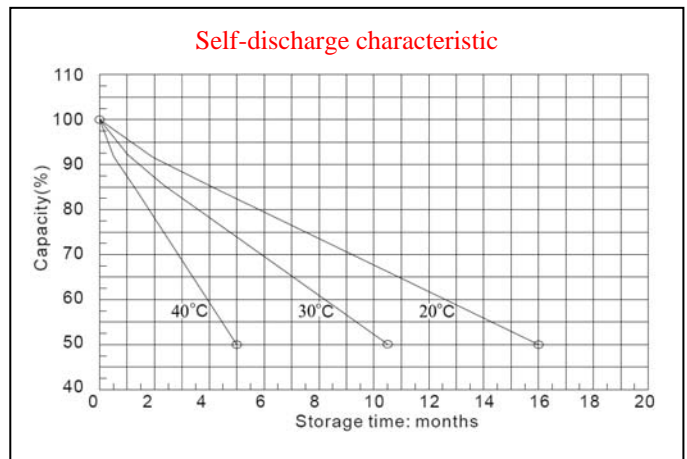
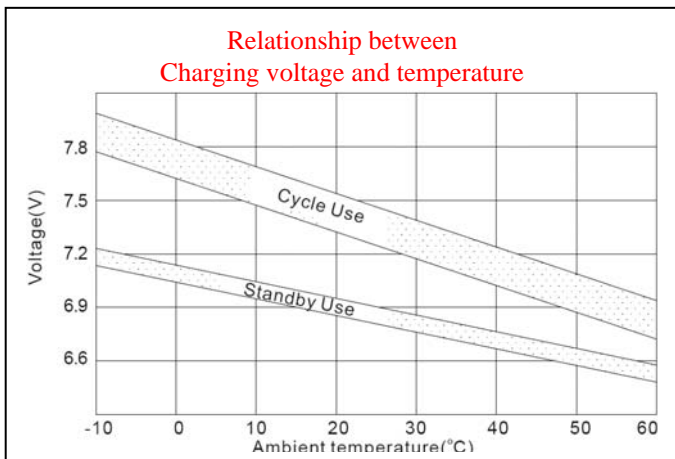
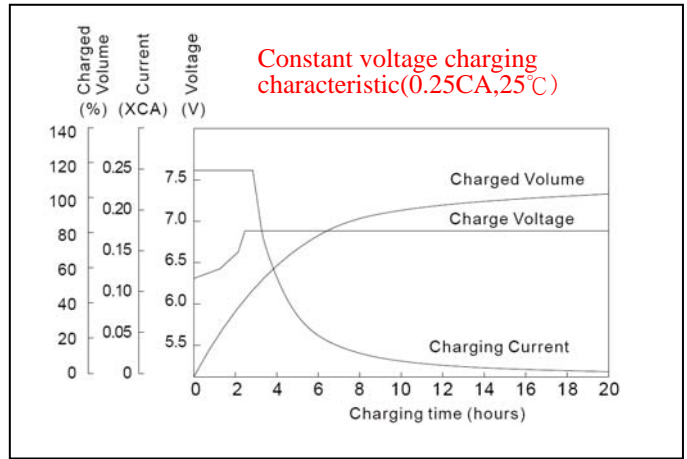
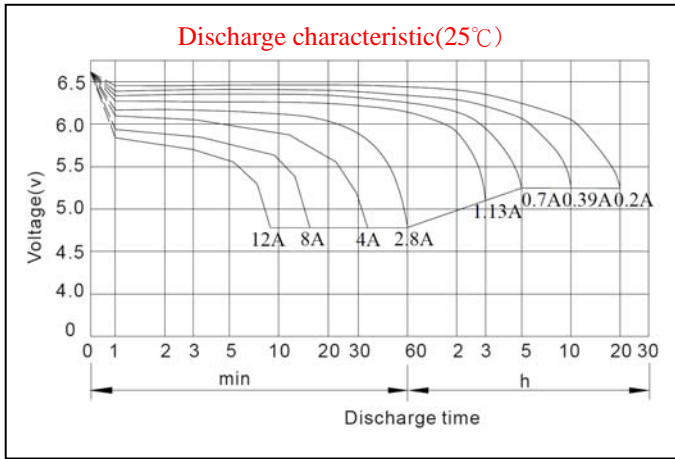
Battery model	TL640			
Nominal voltage	6V			
Number of cell	3			
Capacity (25°C)	0.05C ₂₀ (0.2A)	0.5C ₂₀ (2.0A)	1C ₂₀ (4A)	3C ₂₀ (12A)
	4.0Ah	3.0Ah	2.2Ah	1.5Ah
Dimensions	Length	Width	Height	Total Height
	70±1mm	47±1mm	101±1mm	107±1mm
Approx. weight	0.68Kg			
Internal resistance	Full charged at 25°C: 25mOhms			
Self discharge	3% of capacity declined per month at 20°C(average)			
Operating temperature range	Discharge	Charge	Storage	
	-20~60°C	-10~60°C	-20~60°C	
Max. discharge current (25°C)	60A (5s)			
Short circuit current	200A			

Charging Method

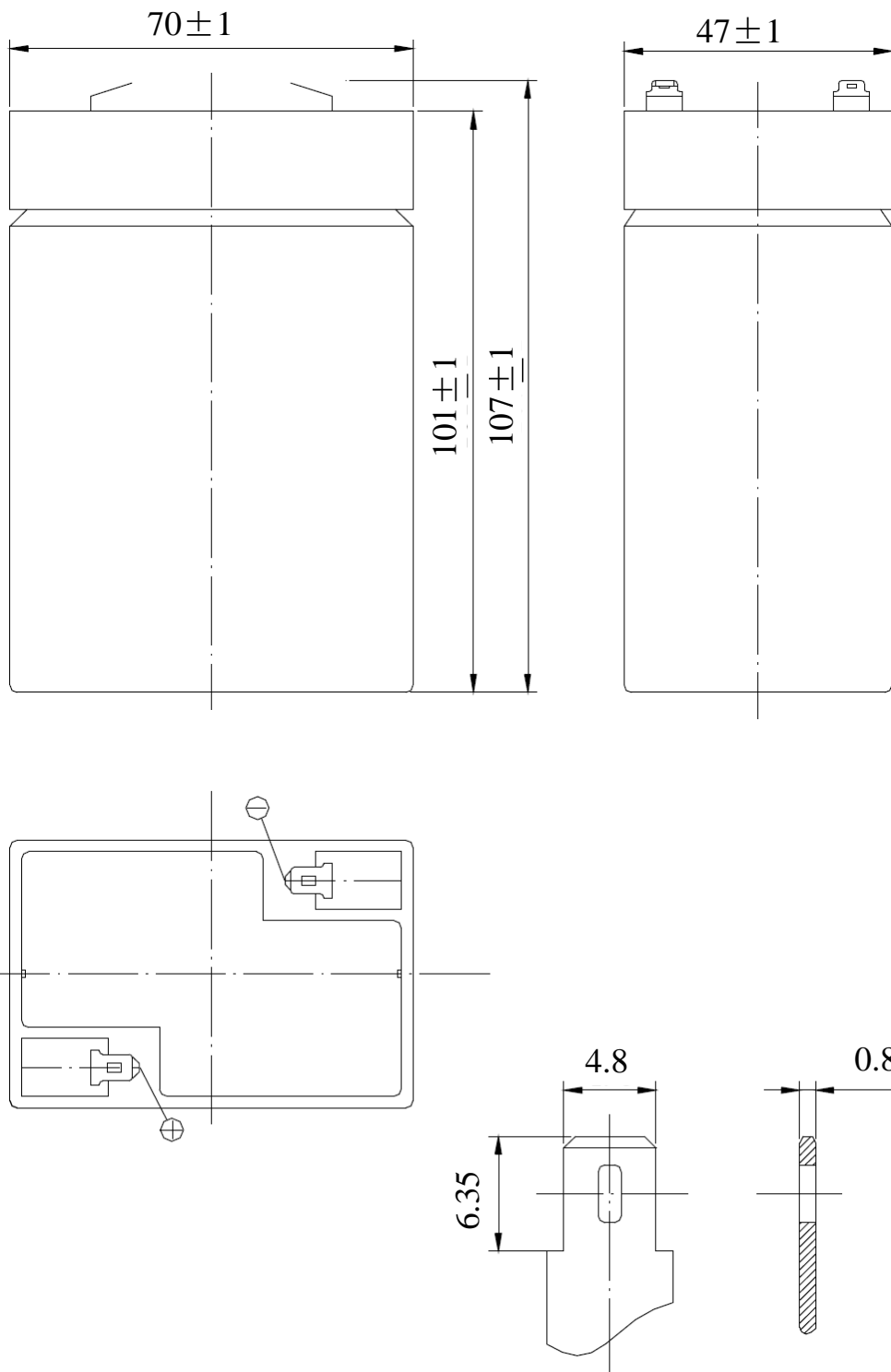
Charging Method(25°C)	Cycle use	Float use
Charge Voltage	7.30--7.50V	6.80—6.90V
Max Charge Current	1.2A	1.2A
Charging Time	12h(60%DOD) 24h(100%DOD)	>48h

Depth of discharge

Time	Constant current discharge characteristics(25°C) A					Constant power discharge characteristics(25°C) W				
1min	12.0	13.5	15.3	16.0	16.7	130	143	158	161	165
5min	10.4	11.5	12.8	13.5	14.0	111	123	136	139	142
15min	6.40	6.72	7.12	7.36	7.68	68.8	73.6	77.2	80.4	82.4
30min	4.24	4.28	4.40	4.52	4.56	47.2	48.4	50.0	51.2	52.4
45 min	3.16	3.24	3.32	3.32	\	36.0	37.5	38.6	38.8	\
1hr	2.56	2.64	2.68	2.68	\	29.5	30.4	31.0	31.0	\
2hr	1.48	1.48	1.52	\	\	17.0	17.1	17.5	\	\
3hr	1.00	1.04	\	\	\	12.2	12.2	\	\	\
5hr	0.68	0.68	\	\	\	7.92	7.92	\	\	\
8hr	0.46	0.48	\	\	\	5.52	5.64	\	\	\
10hr	0.39	0.40	\	\	\	4.56	4.72	\	\	\
20hr	0.20	0.20	\	\	\	2.16	2.16	\	\	\
End Voltage V	5.40	5.25	5.10	4.95	4.80	5.40	5.25	5.10	4.95	4.80



Battery and terminal dimensions



Telong Energy Technology Co., Ltd.		
MODEL:TL640	DWG No.:TLG640-01	
SCALE:NTS	DIM:mm	Approved by:
DATE:2010.6.23	DRAWN BY: jia yu	Xiang Fu