

## Tadiran High Power Lithium Organic Cell Model TLM-1550HP

### 1. Scope

This data sheet describes the mechanical design and performance of Tadiran high power lithium organic cell model TLM-1550HP.

### 2. Characteristics

#### 2.1. Physical

- 2.1.1. Length: 50.2± 0.3 mm.
- 2.1.2. Diameter: 15.0 mm. max.
- 2.1.3. Weight: 20± 0.2 gr.



#### 2.2. Electrical

##### 2.2.1. Discharge

Discharge capacity at 50mA @ RT	550mAh
Maximum discharge current:	Continuous: 5.0 A
	Pulse: 15 A

2.2.2. Operating Temperature range: -40<sup>0</sup>C to 85<sup>0</sup>C

##### 2.2.3. Self discharge current:

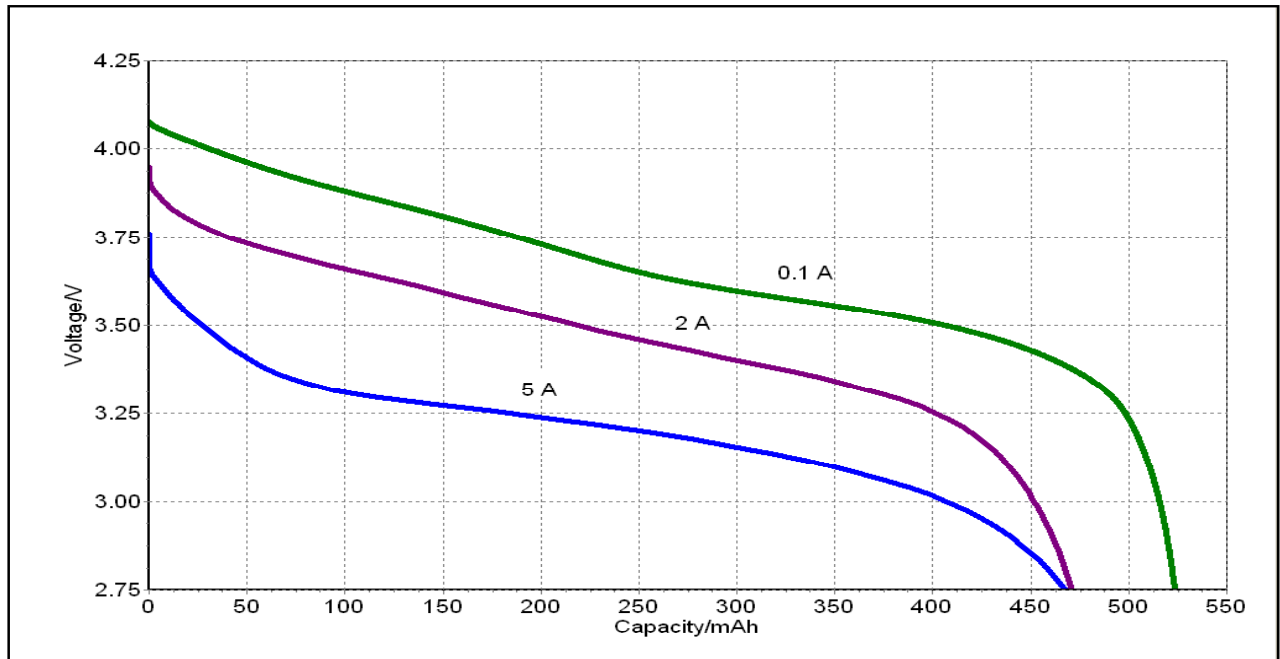
Temperature [°C]	Self-discharge rate [µA]
22	2
35	5
42	5.5
55	6
72	10
85	TBD

2.2.4. Capacity loss 1<sup>st</sup> year: 40mAh  
Annual capacity loss: 15mAh

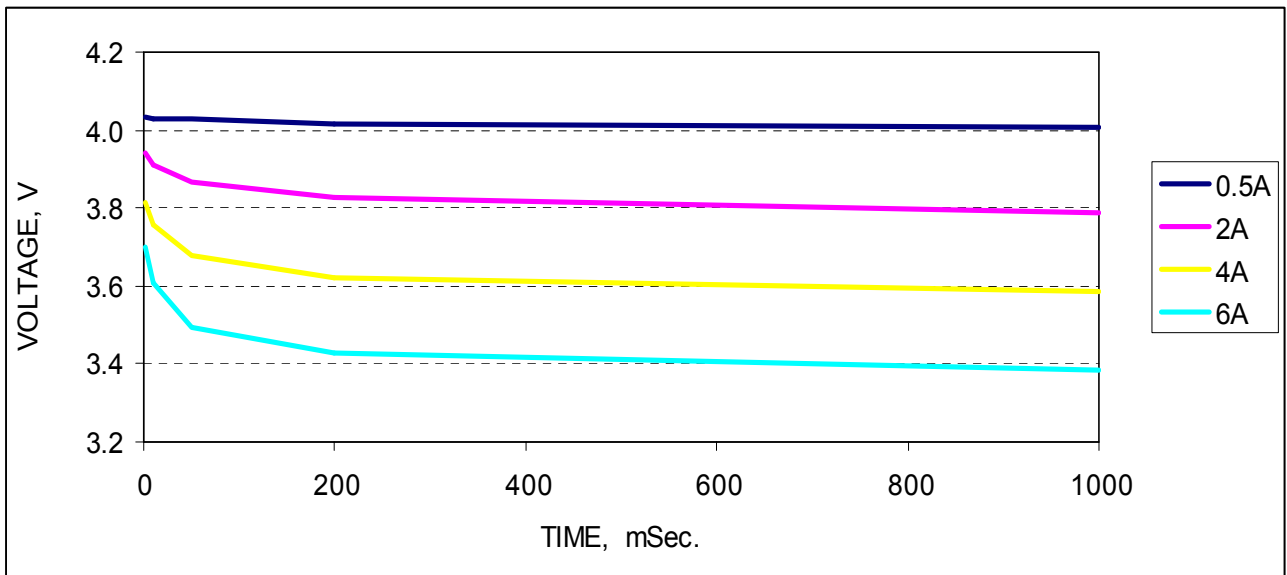
2.2.5. Cell impedance: Less than 100 mOhm @ 1kHz at room temperature.

2.2.6. Performance Data:

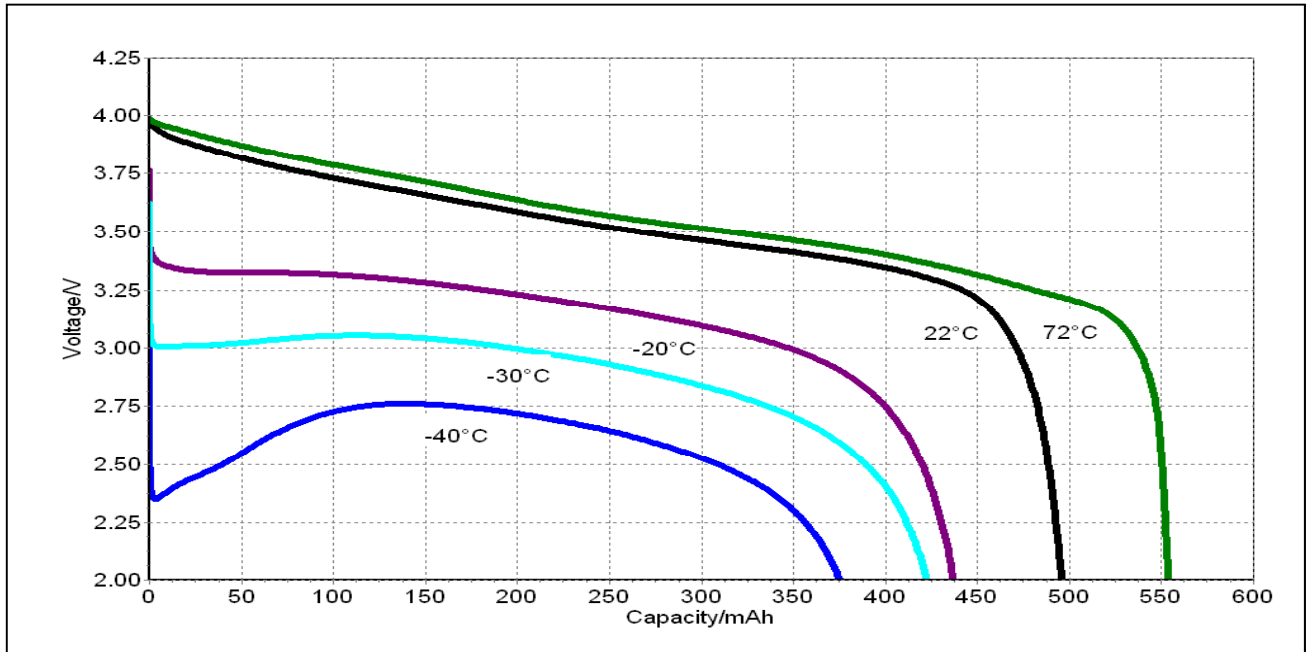
**Discharge capability at RT**



**Pulse capability at RT**

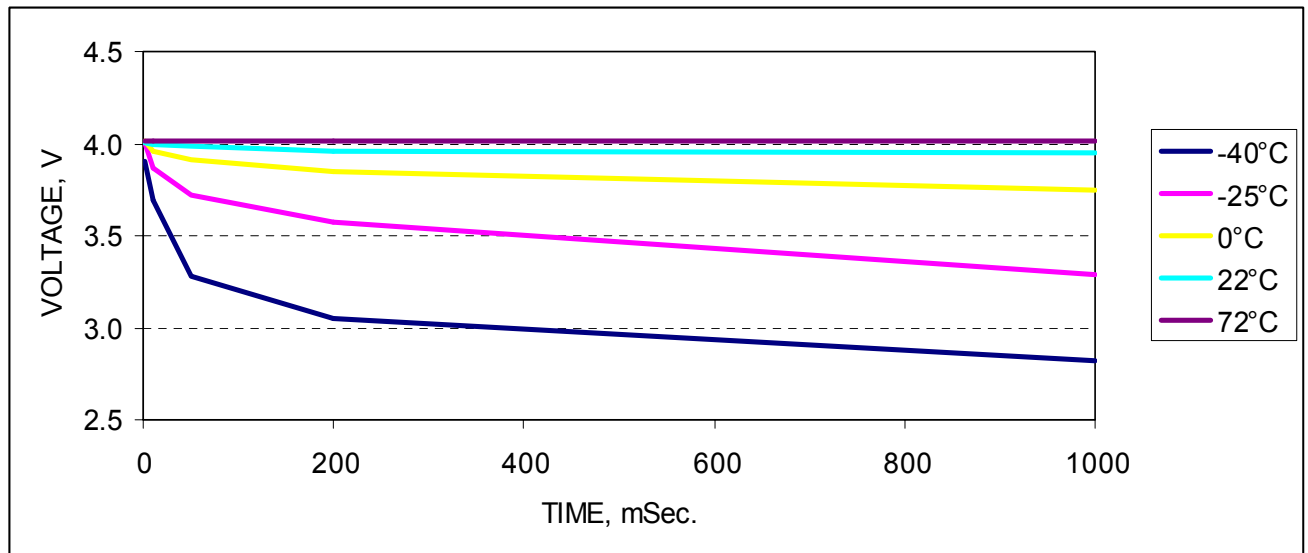


**Discharge capability @ 1A at several temperatures**



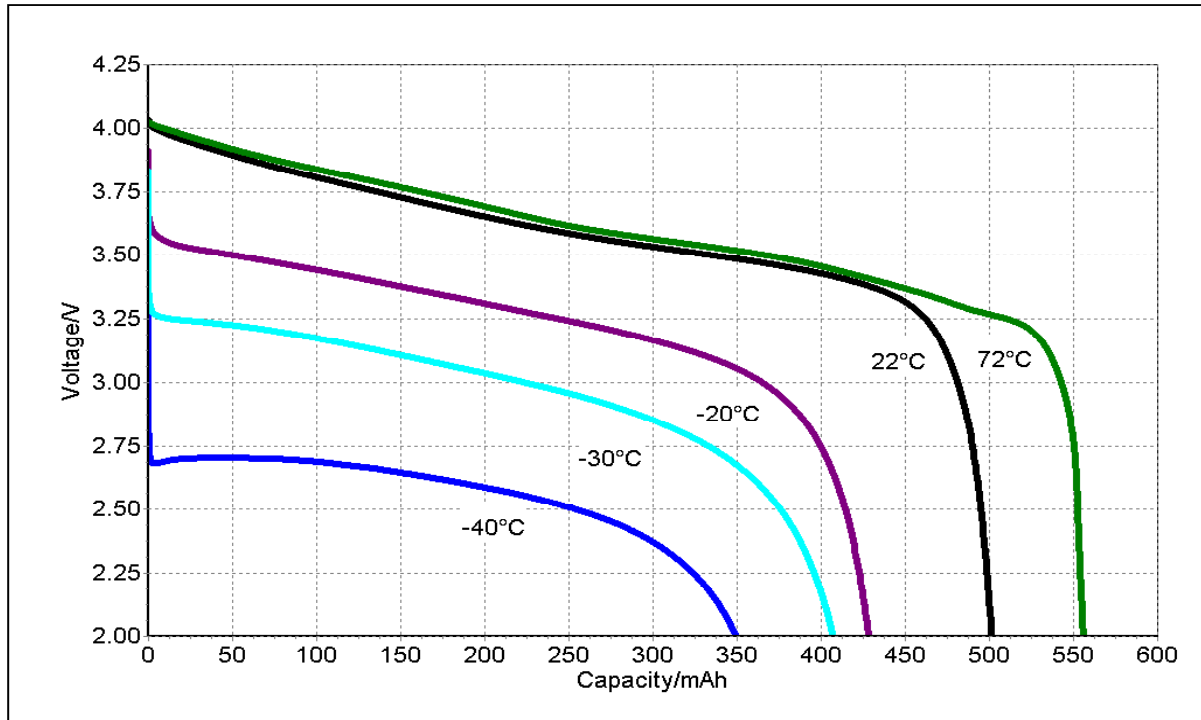
The data for 85C is same as for 72C

**Pulse capability @ 1A at several temperatures**



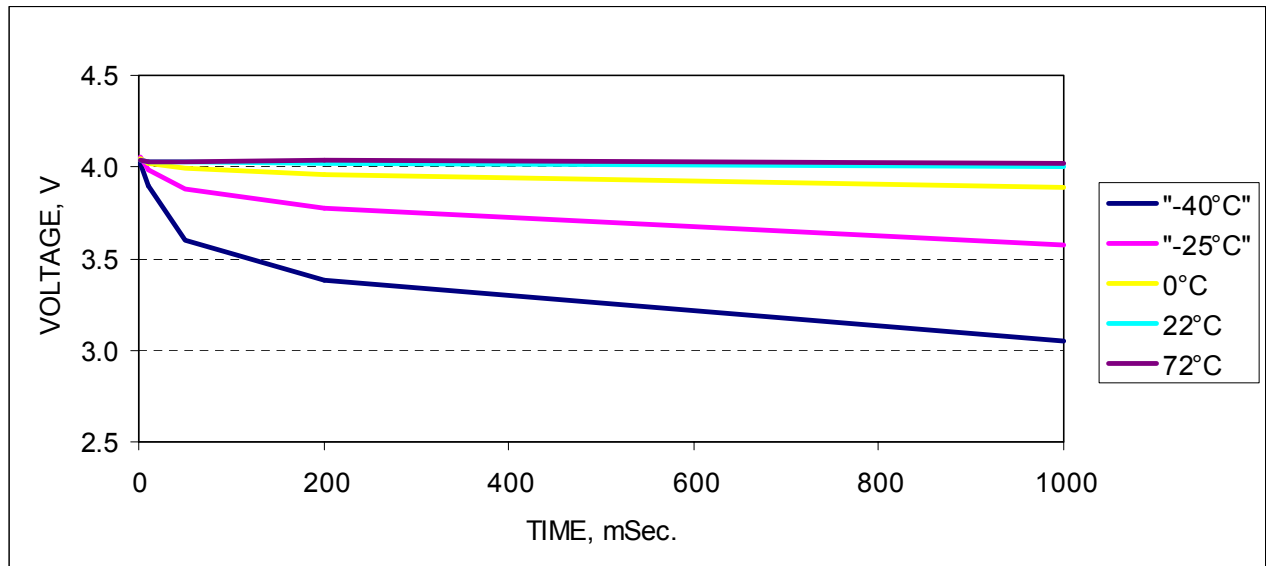
The data for 85C is same as for 72C

**Discharge capability @ 0.5A at several temperatures**



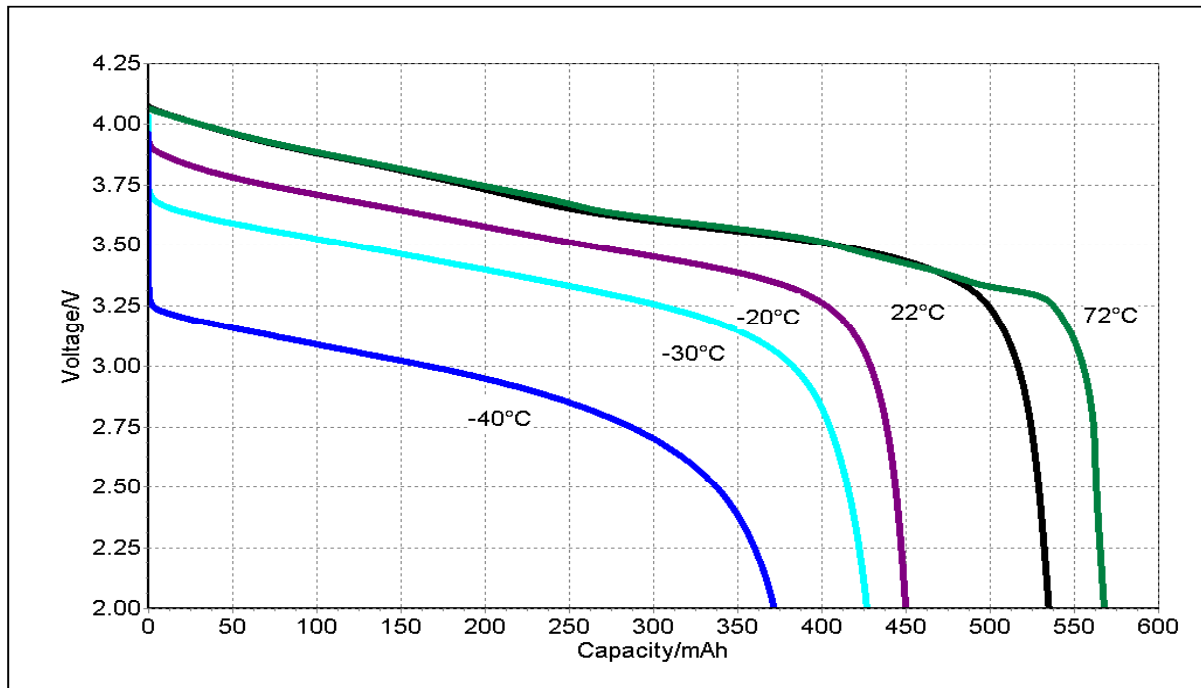
The data for 85C is same as for 72C

**Pulse capability @ 0.5A at several temperatures**



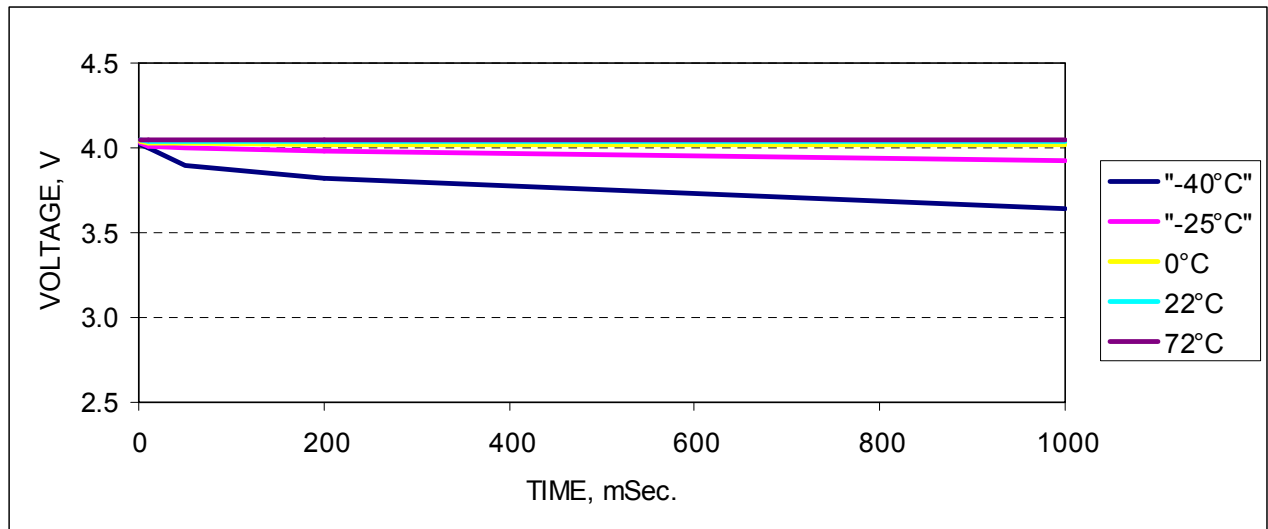
The data for 85C is same as for 72C

**Discharge capability @ 0.1A at several temperatures**



The data for 85C is same as for 72C

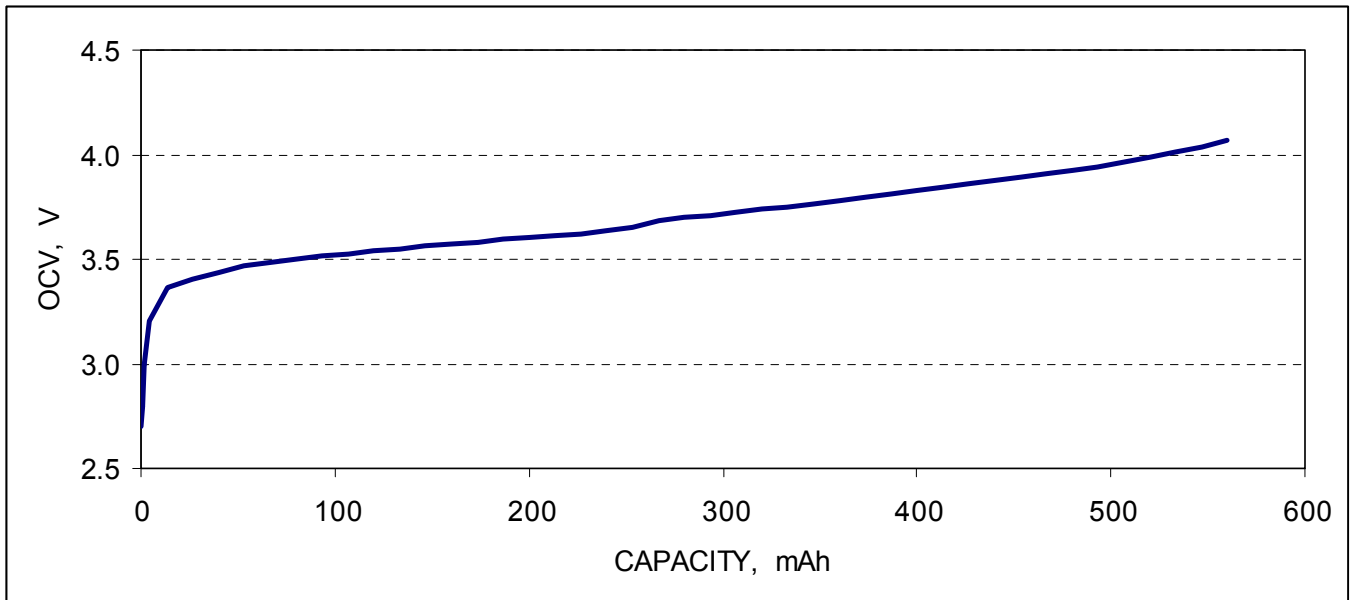
**Pulse capability @ 0.1A at several temperatures**



The data for 85C is same as for 72C

**End of life indication:**

OCV measurements can provide a good estimation for the remaining capacity of the cell as shown below:

**Capacity vs. OCV****Safety tests:**

The cell has successfully passed the following safety tests:

- Short circuit at RT and at 55°C.
- Oven at 150°C.
- Impact.
- Nail penetration.
- Over charge and over discharge.

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