


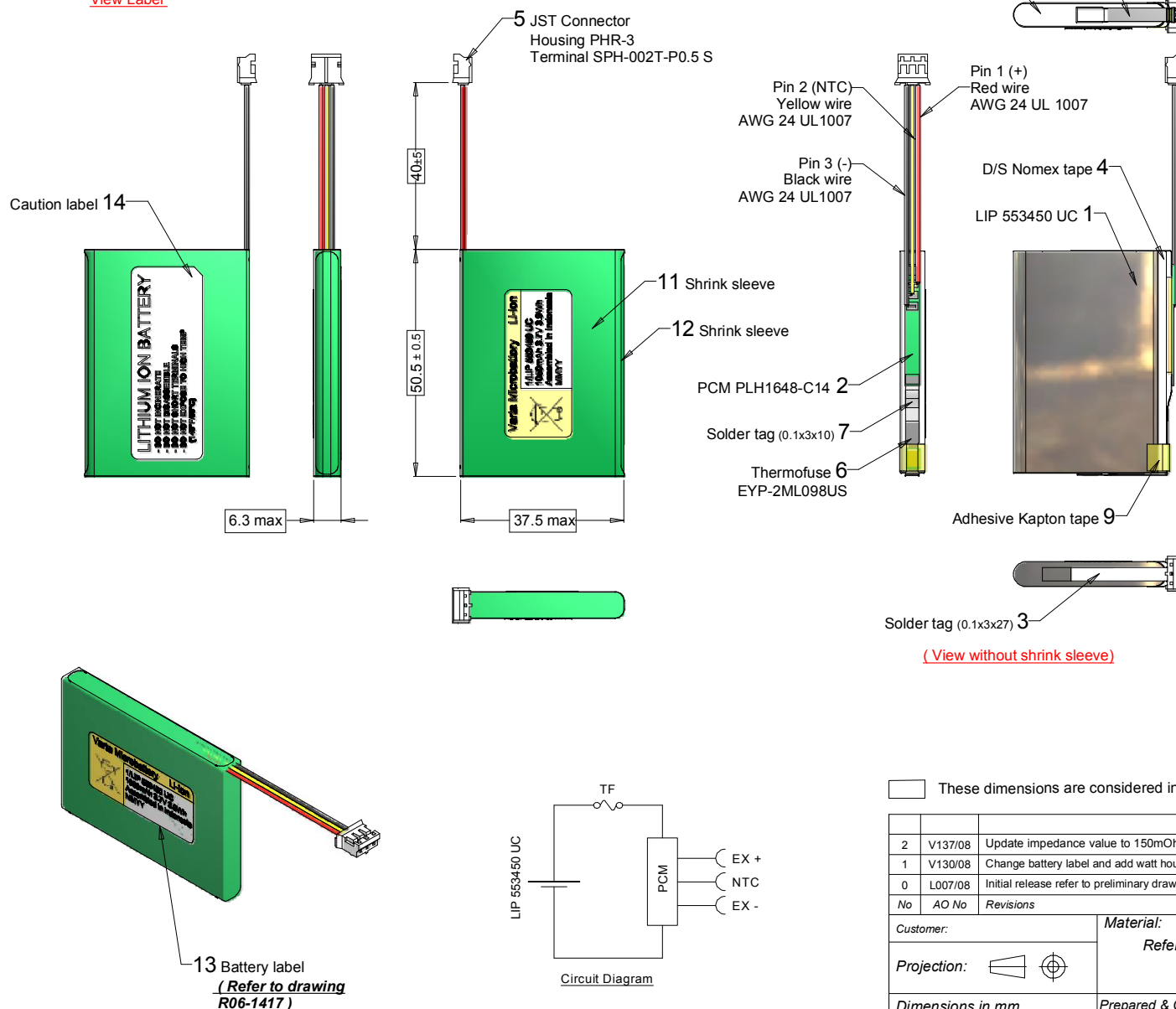
VARTA MicrobatteryLi-Ion



1/LIP 553450 UC  
1050mAh 3.7V 3.9Wh  
Assembled in Indonesia  
MMYY

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This is a controlled document.  
Hardcopy to be endorsed by authorized person.  
Check with Issuing Office or SAP system for latest update.



## Specification

### 1. General:

Battery Pack in shrink sleeve incl. safety circuit, and wires connector.  
Cell: LIP 553450 UC  
PCM: PLH 1648-C14  
NTC: 10kΩ ±1%, B - Value 3435K±1%  
ID: None  
Configuration: 1S  
Weight : appr. 35g

### 2. Electrical Specification:

Rated Capacity: 1000mAh min, 1050mAh typical  
Nominal Voltage: 3.7V  
Watt-hour rating : 3.9Wh  
Charging Method: Constant Current + Constant Voltage  
Max. Charge Voltage [V]: 4.20 (±50mV)  
Max. Continuous Charge Current: 1000mA (Limited by Cell DS)  
Rec. Charge cut off: 20mA or timer 3h  
Max. Continuous Discharge Current: 2000mA (Limited by Cell DS)  
Rec. Discharge cut off: 2.75V  
Internal Impedance: AC (1kHz) approx. 150mΩ  
Exp. Cycle Life: >500 cycles > 70% of initial cap. (0.5C/0.5C)

### Cell protection

Overcharge Detection: 4.300V ± 20mV  
(1.0s ± 0.2s .delay, resume 4.100V ± 30mV)  
Overdischarge Detection: 2.400V ± 35mV  
(96ms ± 19.2ms delay, resume 2.400V +50mV / -35mV)  
Overcurrent Detection: 4.0A to 7.0A (9.6 to 14.2 msec delay)

### 3. Ambient Conditions

Temperature Range  
-Charge: 0 to +45°C  
-Discharge: -20 to +60°C  
-Charge Retention/Storage [%]: 1 year at -20 to 20°C >80%  
3 months at -20 to 45°C >80%  
1 month at -20 to 60°C >80%  
-Humidity: 65 ± 20%RH

### 4. Environmental and Safety

Please follow VARTA Handling and Safety  
Precautions for Li Ion & Li Polymer.  
The cell is approved according UL 1642.  
This battery meets the requirements of Battery Directives,  
and the battery parts are RoHS-Compliant.

#### Note :

- Using Thermal transfer printer.
- Use Ribbon type TR 4070S-EA
- Battery visible surface to be free from scratches, marks and foreign substances
- Production code printed according to MMYY

These dimensions are considered inspectable

2	V137/08	Update impedance value to 150mOhm was 135mOhm	2008-11-17	Sony
1	V130/08	Change battery label and add watt hour rating identification	2008-10-27	Sony
0	L007/08	Initial release refer to preliminary drawing # P06-10084 revisi 002	2008-03-11	Sony
No	AO No	Revisions	Date	Name
Customer:		Material: Refer to part list # 700193	Description: 1/LIP 553450 UC PCM S WC with pcm,sleeve and wire connector	
Projection:		Prepared & Checked	Verified & Approved	Dwg. No: 700193
Dimensions in mm		2007-02-12	Sony	VKB Order No: 56421 201 013
Tolerance: ISO 2768-m				
Scale: 1:1 (in A3)				

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