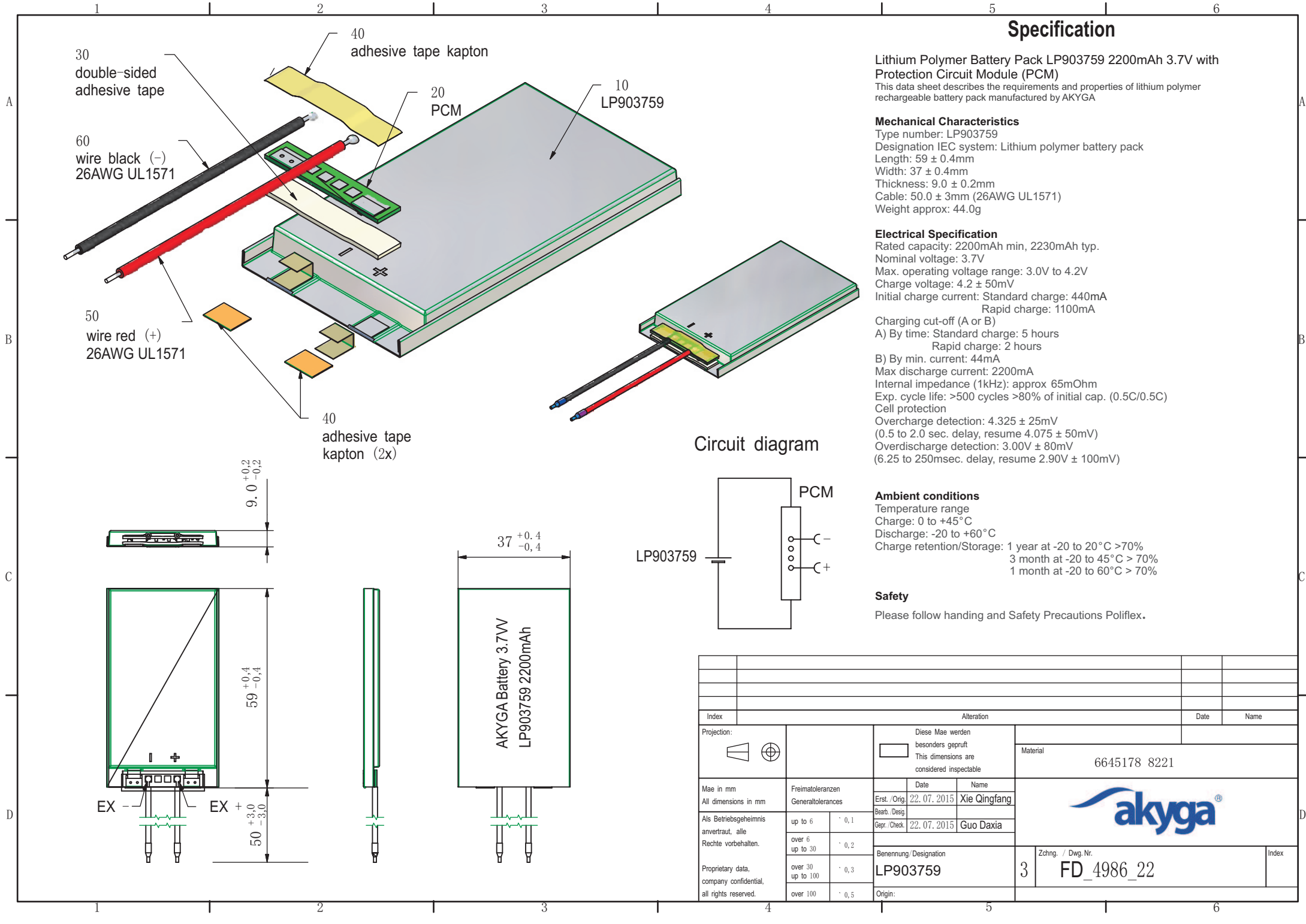




## Specification

### Lithium Polymer Battery Pack LP903759 2200mAh 3.7V with Protection Circuit Module (PCM)

This data sheet describes the requirements and properties of lithium polymer rechargeable battery pack manufactured by AKYGA

#### Mechanical Characteristics

Type number: LP903759  
Designation IEC system: Lithium polymer battery pack  
Length:  $59 \pm 0.4\text{mm}$   
Width:  $37 \pm 0.4\text{mm}$   
Thickness:  $9.0 \pm 0.2\text{mm}$   
Cable:  $50.0 \pm 3\text{mm}$  (26AWG UL1571)  
Weight approx: 44.0g

#### Electrical Specification

Rated capacity: 2200mAh min, 2230mAh typ.  
Nominal voltage: 3.7V  
Max. operating voltage range: 3.0V to 4.2V  
Charge voltage:  $4.2 \pm 50\text{mV}$   
Initial charge current: Standard charge: 440mA  
Rapid charge: 1100mA  
Charging cut-off (A or B)  
A) By time: Standard charge: 5 hours  
Rapid charge: 2 hours  
B) By min. current: 44mA  
Max discharge current: 2200mA  
Internal impedance (1kHz): approx 65mOhm  
Exp. cycle life: >500 cycles >80% of initial cap. (0.5C/0.5C)  
Cell protection  
Overcharge detection:  $4.325 \pm 25\text{mV}$   
(0.5 to 2.0 sec. delay, resume  $4.075 \pm 50\text{mV}$ )  
Overdischarge detection:  $3.00\text{V} \pm 80\text{mV}$   
(6.25 to 250msec. delay, resume  $2.90\text{V} \pm 100\text{mV}$ )

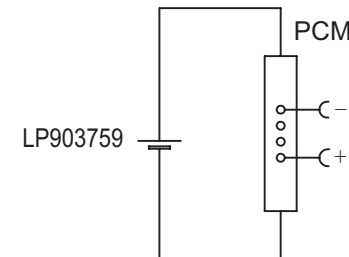
#### Ambient conditions

Temperature range  
Charge: 0 to  $+45^\circ\text{C}$   
Discharge:  $-20$  to  $+60^\circ\text{C}$   
Charge retention/Storage: 1 year at  $-20$  to  $20^\circ\text{C}$  >70%  
3 month at  $-20$  to  $45^\circ\text{C}$  >70%  
1 month at  $-20$  to  $60^\circ\text{C}$  >70%

#### Safety

Please follow handing and Safety Precautions Poliflex.

### Circuit diagram



|                                                              |  |                                            |  |                   |      |
|--------------------------------------------------------------|--|--------------------------------------------|--|-------------------|------|
| Index                                                        |  | Alteration                                 |  | Date              | Name |
| Projection:                                                  |  | Diese Mae werden besonders geprüf          |  | Material          |      |
| Mae in mm                                                    |  | This dimensions are considered inspectable |  | 6645178 8221      |      |
| All dimensions in mm                                         |  | Date                                       |  | Name              |      |
| Erst./Orig.                                                  |  | 22.07.2015                                 |  | Xie Qingfang      |      |
| Bearb./Desig.                                                |  | 22.07.2015                                 |  | Guo Daxia         |      |
| Als Betriebsgeheimnis anvertraut, alle Rechte vorbehalten.   |  | Benennung/Designation                      |  | Zchnng. / Dwg.Nr. |      |
| Proprietary data, company confidential, all rights reserved. |  | LP903759                                   |  | 3 FD_4986_22      |      |
| up to 6                                                      |  | 0,1                                        |  | Index             |      |
| over 6                                                       |  | 0,2                                        |  |                   |      |
| up to 30                                                     |  | 0,3                                        |  |                   |      |
| over 30                                                      |  | 0,4                                        |  |                   |      |
| up to 100                                                    |  | 0,5                                        |  |                   |      |
| over 100                                                     |  |                                            |  |                   |      |