

Product Datasheet

ENGLISH

LITHIUMION186502600mAhBUILT-INPCB

SPECIFICATION

FOR

- RS Article Number: 8801558
- 1. Specially designed for high-intensity torch (flashlight) or user device who use this battery to charge and discharge by consumer charger.
- 2. It is the best mach for your high-drain device.
- 3. Built-in over-charge protection, over discharge protection, over current protection, short protection,

A protected battery include PCB picture as following:

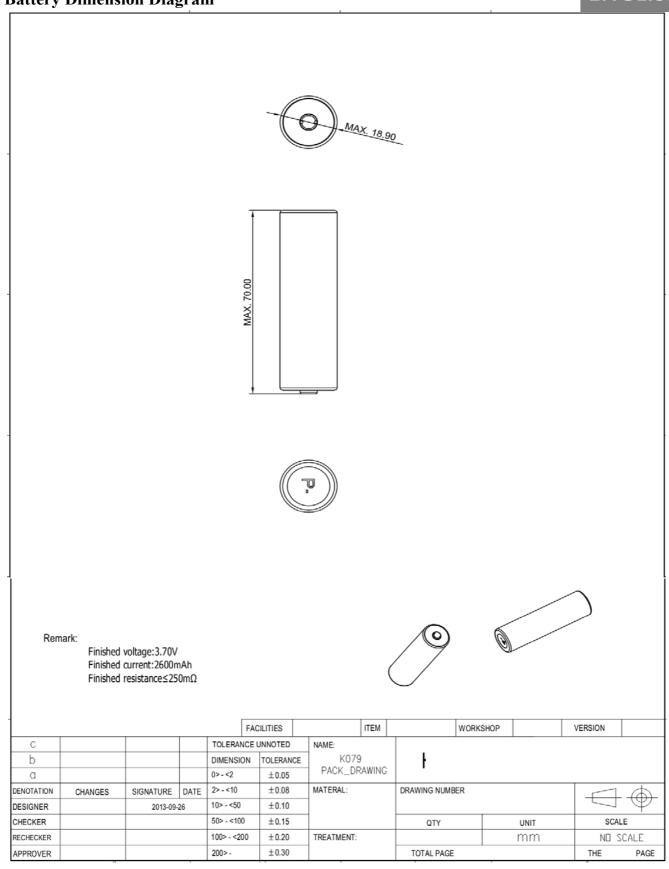






1. Battery Dimension Diagram

ENGLISH

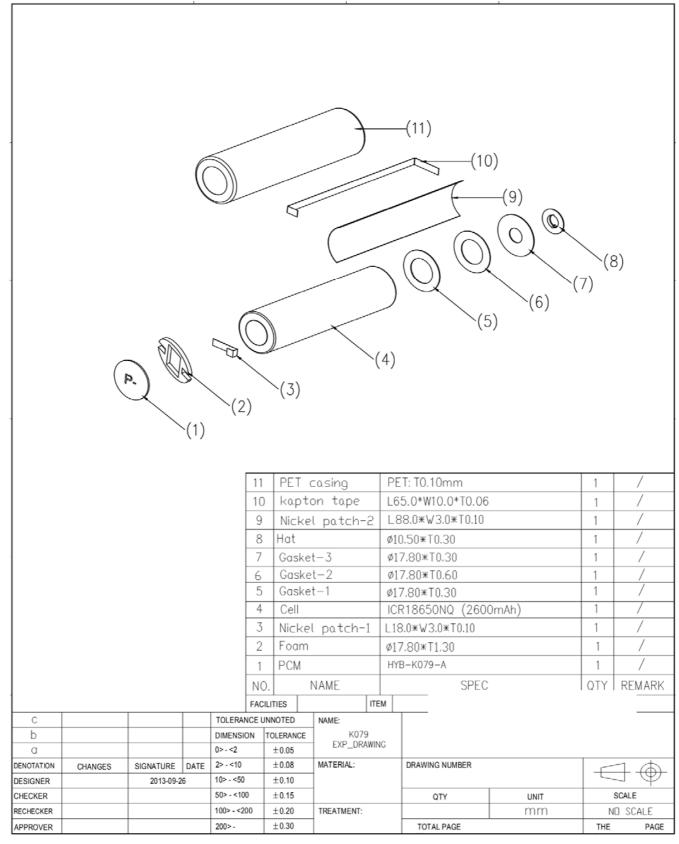


RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



ENGLISH

17. Battery Assembly Diagram (Include Parts List)



RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



PCB SPEC

ENGLISH

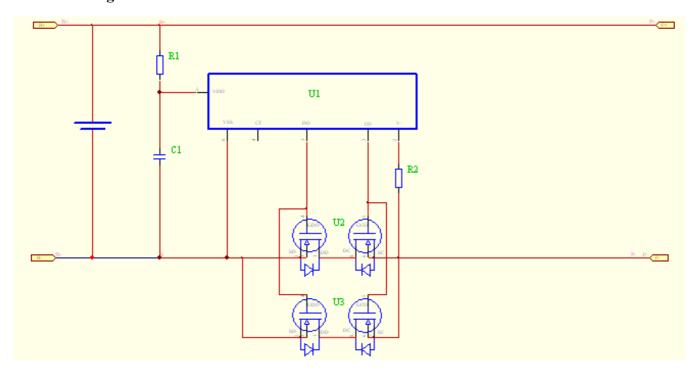
1. Electronic Characteristics (25℃)

Item	Symbol	Content	Criterion	
Over charge Protection	$V_{ m DET1}$	Over charge detection voltage	4.280±0.025V	
	tV _{DET1}	Over charge detection delay time	0.92-1.4s	
	$ m V_{REL1}$	Over charge release voltage	4.080±0.025V	
Over discharge protection	$V_{ m DET2}$	Over discharge detection voltage	2.800±0.050V	
	tV _{DET2}	Over discharge detection delay time	115-173ms	
	$ m V_{REL2}$	Over discharge release voltage	2.800±0.050V	
Over current protection	$V_{ m DET3}$	Over current detection voltage	0.100±0.015V	
	I_{DP}	Over current detection current	5.0~9.0A	
		Release condition Cut load		
		Over current detection delay time	7.2-11.0ms	
Short protection		Detection condition	Exterior short circuit	
		Release condition	Cut short circuit	
		Detection delay time	220-360us	
Interior resistance	R_{DS}	Main loop electrify resistance	VC=4.2V,R _{DS} ≤45mΩ	
Current consumption	I_{DD}	Current consume in normal operation 3μA Type 6.0μA M		



ENGLISH

2. Circuit Diagram



3. PCB Parts List

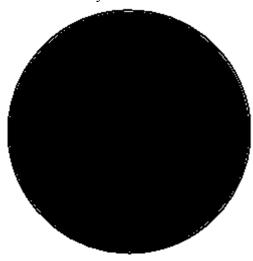
5. I CD I alts List									
Item	Part Name	Description	QTY	Footprint	Supplier	Remarks			
1	U1	S-8261-G3M	1pcs	SOT-23-6	SEIKO				
2	U2,U3	AO8810	2pcs	TSSOP-8	AOS				
3	R1	SMD 470R, ±5%	1pcs	0603	YAGEO				
4	R2	SMD 2K,±5%	1pcs	0805	YAGEO				
5	C1	SMD 0.1 µ F,±5%,50V	1pcs	0603	YAGEO				
6	B+ B-	3.0*3.0*0.3 mm	2pcs		FUJIADA				
7	PCB	∮ 17.8×1.0mm	1pcs	HYB-K079-A	MEIYADI	FR4 2 Layer			

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



ENGLISH

4.4 Bottom Layer



5. PCM Assemble Mechanical Drawing PCB Outline Uni t: mm

