		P/N:	4-PJ001L
	JOULES MILES CO., LTD.		F
SPECIFICATION APPROVAL SHEET			3

1. Scope

This product specification shall be applied to rechargeable lithium-ion battery pack.

2. Descriptions and Model Number

(1) Descriptions Rechargeable lithium-ion battery pack

(2) Battery Cell Configuration(3) Model NumberPJ21

3. Composition

Li-ion cells, a protection circuit module, insulators and nickel plates.

4. Product Specification:

Cell	UF553450Z			
Battery pack capacity	1150mAh			
Battery pack Nominal Voltage	3.7V			
End voltage	2.75V			
Optimum charge current	≤1.15A(1C)			
Max charge voltage	4.2V± 0.03V			
Max discharge current(at 25°C)	≤1.5A			
Internal Resistance	≤210mΩ			
Charging method	CC/CV (Constant current/ voltage)			
Operation temperature	Charge : 0~45°C			
Operation temperature / WWW	Discharge : -20~60°C -20~50°C (Less then 1 month)			
Storage Temperature	-20~40°C (Less then 3 month)			
	-20~20°C (Less then 1 year)			
Weight	≤28g			
Battery pack to be ROHS compatible				
Battery pack shall be shipped in 25~30% charged state.				



P/N:	4-PJ001L
Rev.	F
Page	4

5. Battery pack protection function

(Ta=25°℃)

5.1.

Battery pack overcharge detection voltage $4.280 \pm 0.025 \text{ V}$ Battery pack overcharge release voltage $4.080 \pm 0.050 \text{ V}$ $0.96 \sim 1.4 \text{ sec}$ Battery pack overcharge delay time

SPECIFICATION APPROVAL SHEET

5.2.

Battery pack overdischarge detection voltage $2.30 \pm 0.05 \text{ V}$ Battery pack overdischarge release voltage $2.30 \pm 0.10 \text{ V}$ 150±30 msec Battery pack overdischarge delay time

5.3.

Battery pack charge overcurrent detection current 1.29~5.41A

Battery pack charge overcurrent release Reset by charge release

Battery pack charge overcurrent delay time 7.2~11 msec

5.4.

Battery pack discharge overcurrent detection current 2.13~6.04A

Reset by load release Battery pack discharge overcurrent release

Battery pack discharge overcurrent delay time 7.2~11 msec

5.5

1~5.5 μA PCM current consumption

http://www.ods-web.co.jp/



P/N:	4-PJ001L
Rev.	F
Page	5

SPECIFICATION APPROVAL SHEET

6. Battery Pack Parts List

No	品名	數量	Unit	MAKER	備註
1	Li-ION UF553450ZP 1150mAh	1	PCS	日本製	
2	PCM, 板號:JM-1SP050PP MOS: MTMC8E2A0LBF (Second Source:SP8601) 保護 IC:S8211CAK TH:10K±1% PPTC:MINISMDC200F-2	1	PCS	飛天	
3	龍華包貼 0.13*49*117.5mm 材質:龍華 60B	1	PCS	~	
4	840S 充型 for CP21 尺寸:0.12*6 *7.9 mm	1	PCS	~	
5	絕緣膠帶, TESA4972, 0.05*4*49mm	1	PCS	2	
6	絕緣膠帶, PET, 0.13*4*25mm		PCS	~	
7	絕緣膠帶, 3M9495-300LSE, 0.15*31*48.6mm (不含 8mm 無背膠)		PCS	~	
8	鎳片,充型, 0.127*7*10mm	1	PCS	~	
9	鎳片, 0.127*2.5*80mm		PCS	70	/
10	膠, 導熱 9184RTV/ W W W . UU 5 W U		g	. J.P/	
11	HOUSING:JST ACHR-03V-K CONTACTS:JST SACH-003G-P0.2 JST 1.2PITCH 3PIN 日立 1571 28AWG, PIN1 紅線:27mm (+) PIN2 綠線:31mm (TH) PIN3 黑線:35mm (-) (含裸線 2mm)	1	PCS	新呈	或同種 規格
12	PJ21(G187) 標籤 尺寸:0.115*28.5*46mm 材質:白龍 50 上亮 供應商編碼:JM-1688-B *變更內文*	1	PCS	~	



SPECIFICATION APPROVAL SHEET

P/N:	4-PJ001L
Rev.	E
Page	6

	紙箱 (卡其色) (長)390* (寬)345* (高)142mm 5 層/AB 愣 外觀標示:0.68 裁積 (新增標示 儲存溫度 20~35 度 RH30%~85%)	0.004	PCS	~	
14	隔層 (厚)2* (寬)382* (長)336mm 3 層 / A 愣	0.01	PCS	~	
15	井格 (裁格)8+ (寬)56* (長)382mm / 3 層 / A 愣*增加紙的磅數*	0.074	PCS	~	
16	井格 (裁格)11+ (寬)56* (長)336mm / 3 層 / A 楞*紙的磅數增加*	0.027	PCS	~	
17	塑膠包裝袋 T0.05mm*W5.5cm*L13cm (總袋長) *1KG=1400PCS*	1	PCS		
18	標籤 普安側賣用空白整捲 100*65	1	PCS	~	

http://www.ods-web.co.jp/



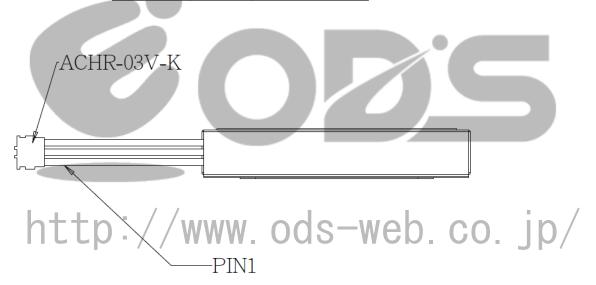
7. Terminal Definitions

7.1. Descriptions

 $\begin{array}{lll} Pack+ & (P+\) & \vdots & Phone + / \ Charge + \\ TH & \vdots & Thermistor (10K\pm1\%) \\ Pack- & (P-\) & \vdots & Phone - / \ Charge - \end{array}$

7.2. Diagrams

PIN1	P+	RED
PIN2	TH	GREEN
PIN3	P-	BLACK





l	P/N:	4-PJ001L
I	Rev.	F
F	Page	8

SPECIFICATION APPROVAL SHEET

8. Handling Warning

- 8.1. Do not immerse the battery in water or seawater, and keep the battery in a cool dry surrounding if it stands by.
- 8.2. Do not use or leave the battery near a heat source as fire or heater
- 8.3. When recharging, use the battery charger specifically for that purpose
- 8.4. Do not reverse the position (+) and negative (-) terminals
- 8.5. Do not connect the battery to an electrical outlet
- 8.6. Do not discard the battery in fire or heat it
- 8.7. Do not short-circuit the battery by directly connecting the positive (+) and negative (-) terminal with metal objects such as wire.
- 8.8. Do not transport or store the battery together with metal objects such as necklaces, hairpins etc.
- 8.9. Do not strike or throw the battery
- 8.10. Do not directly solder the battery and pierce the battery with a nail or other sharp object
- 8.11. If the battery is stored over 3 months, it should be checked again about the remaining capacity and charge the battery.
- 8.12.We suggest that the voltage of battery should not be lower than 3V/cell when working and storing, or it may cause unrecoverable decay in its capacity.

http://www.ods-web.co.jp/