Model No.	: NTA3698
SKU No.	: GPRLC18HG048
Customer Art No.	: 00159430
Product Description	: Rechargeable Lithium Ion Battery

Approved by

(with company chop)

Date:

Presented by
GP Energy Tech International Pte. Limited

Date:

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Note of Revision

Rev	Page	Date	Description	Initiator	Check	Authority
0	/	17Jan2024	First issued	CJ Tu	CB Leung	Mingde W
1	1,5,6,7,8	27May,2024	Review component name Change Header / Footer	JW Liu	CB Leung	Mingde W
2	2	29Oct,2024	Update company name Add document number: MLS0013	JW Liu	CB Leung	Mingde W
3	4 11	3Jul,2025	Update pack label Update cell specification	JW Liu	CB Leung	Mingde W

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1. Scope

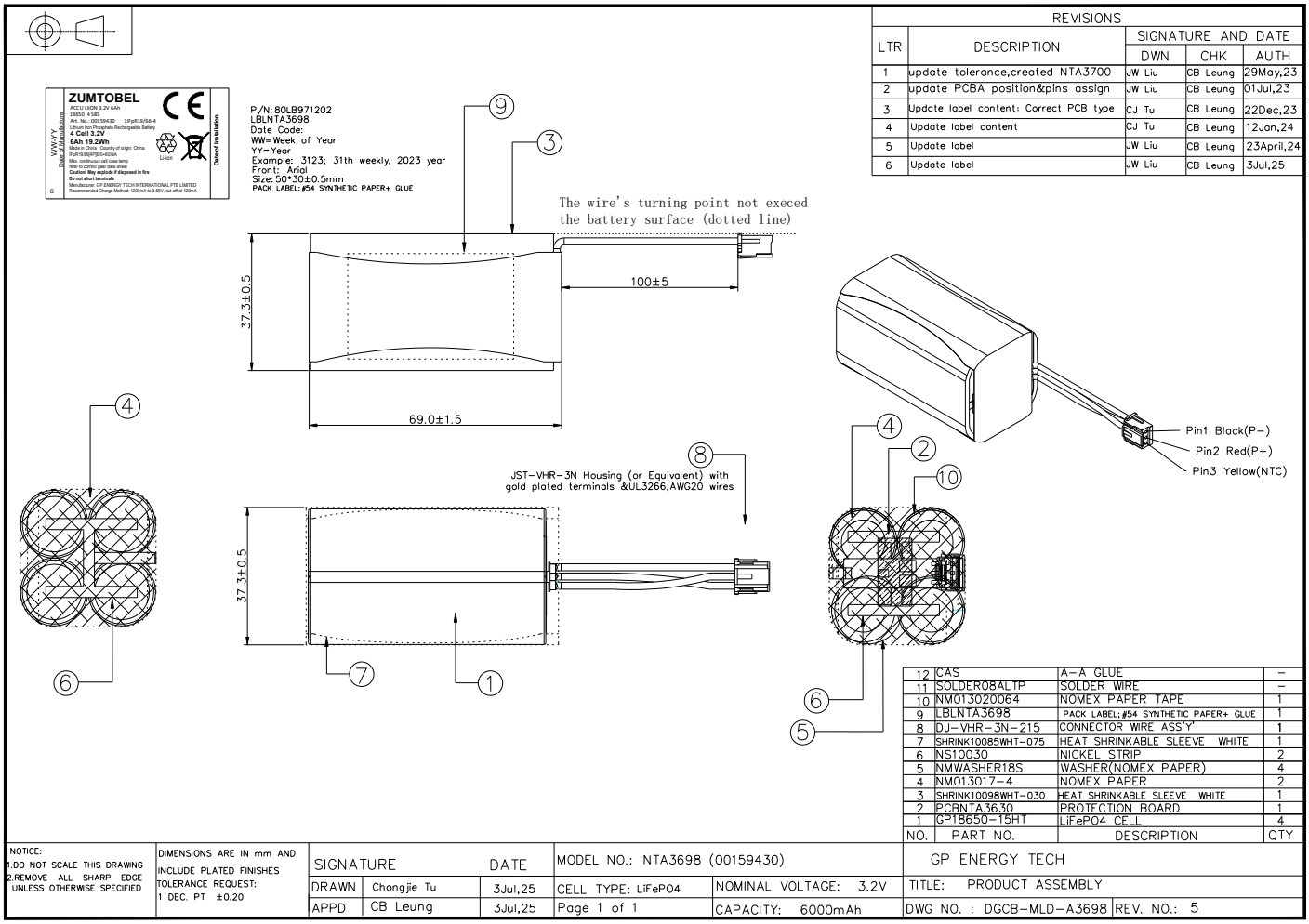
This specification describes the physical, functional and electrical characteristics of a rechargeable Lithium Ion battery pack supplied by GP Energy Tech International Pte. Limited. Battery packs produced will meet this specification. However, the information is descriptive only. No representation, guarantee or warranty of merchantability or fitness for purpose is made or implied. Specifications are subject to change without any prior notice.

2. Specification

Model No	:	NTA3698
Battery Type	:	LiFePO4
Battery Configuration	:	1S4P
Rated Voltage		3.2V
Maximum Charge Voltage	:	3.65V
Discharge Cut-off Voltage	:	2.0V
Rated Capacity	:	6000mAh
Standard Charge Current	:	1200mA
Standard Charge	:	Constant current at 1200mA with maximum voltage not to exceed 3.65V, cut-off current at 120mA.
Standard Discharge Current	:	1200mA
Maximum Charging Current	:	3000mA
Maximum Discharging Current	:	3000mA
Typical Weight	:	168g Ref.
Operating Temperature	:	0℃ to 60℃ (Charging) -20℃ to 60℃ (Discharging)
Storage Temperature	:	-20°C – 45°C (1 month) -20°C – 40°C (6 months) -20°C – 35°C (12 months
Safety Device	:	Each cell is equipped with a safety vent system. Each pack is equipped with a protection circuit against Over- voltage, over-discharge and over-current.
Certifications	:	Batteries & Accumulators Directive (EU DIRECTIVE 2006/66/EC) UN38.3.

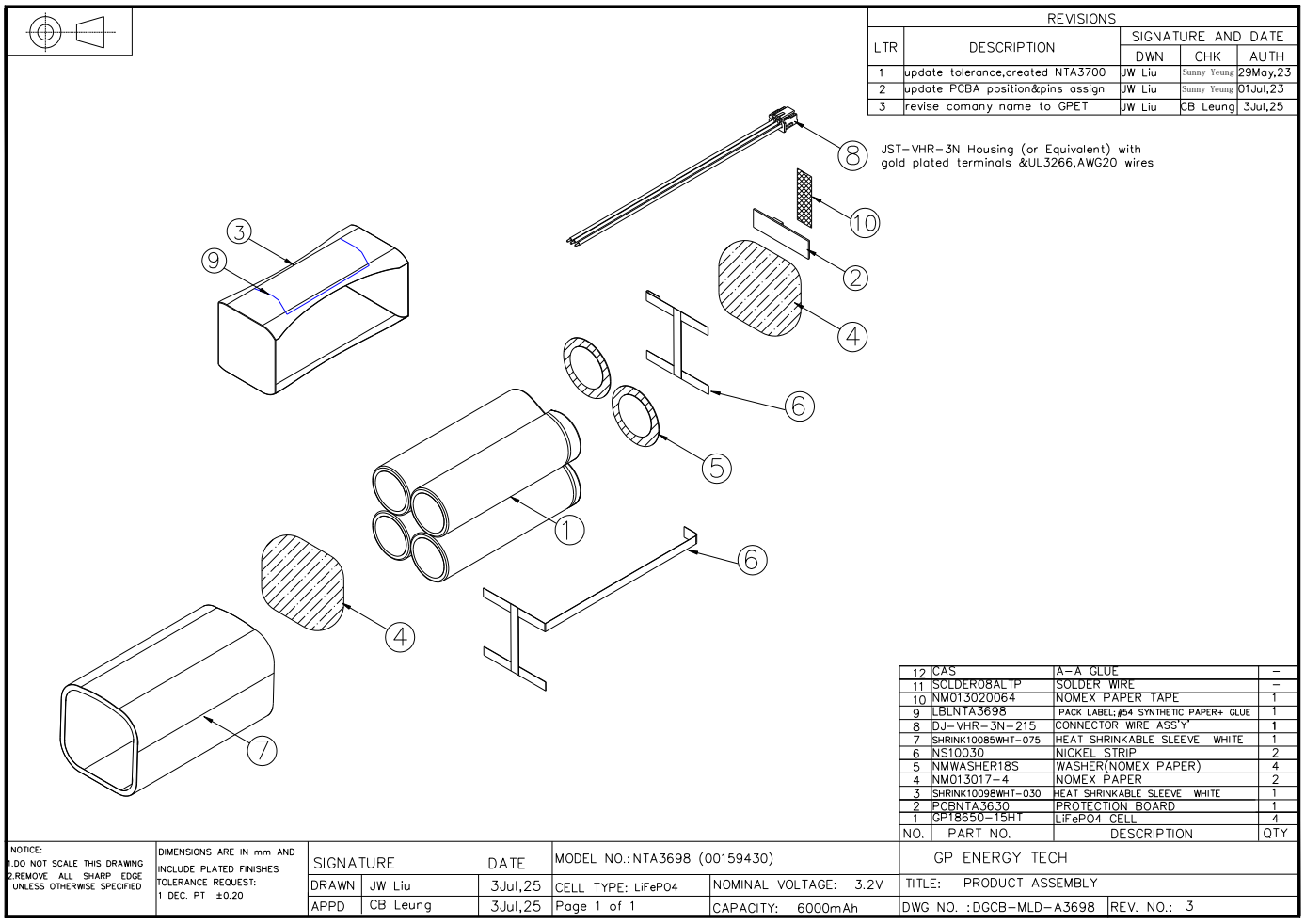
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3. Product Drawing



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4. Test Conditions

Unless otherwise specified, all tests should be conducted within 1 month of delivery under the following conditions:

Ambient Temperature : 25℃ ± 2℃
Relative Humidity : 65 ± 20%

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5. Performance

Item	Criteria		Test Conditions
Capacity	≥ 6000mAh		Standard charge and standard discharge described at IEC61960.
Internal Impedance	≤ 80mohm		Measure AC impedance at 1kHz within 1 hour after standard charge as described at Section 2.
Discharged Capacity at Different Temperatures	-20°C	40%	Standard charge cell as described at Section 2. Place cell in the temperature to be tested for 2 hours and then discharge cell using standard discharge as described at Section 2 and at specified temperature.
	0°C	80%	
	25°C	100%	
	60°C	95%	
Cycle Life	≥ 70% of initial discharged capacity		Measure discharged capacity after conducting 1000 cycles of charge/discharge at 0.5C/0.5C with cut-off voltage at 2.0V.
Charge Retention	≥ 80% (retention) ≥ 90% (recovery)		Measure standard discharge capacity of cells after standard charge to 100% SOC and stored at 20 ± 5°C for 28 days.
Design Life (Emergency Lighting)	⩾5 years		• Operating temperature range: 0-55°C; • Cell voltage range: 3.40 - 3.65V; • Charge current: 600mA; • Discharge time requirement §: (a) > 1 hour at 4200mA (b) > 2 hours at 2260mA (c) > 3 hours at 1500mA

§: discharge temperature range： 40-50°C

6. *Charge State of Battery Shipment*

30% SOC max. to delivery.

Within 30% SOC, it should be able to ship by air per requirement stipulated by the 65th Edition IATA Dangerous Goods regulations effective from Jan 1st, 2024.

Other SOC requirements, please consult with GPETI for detail.

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7. Liability

Customer is kindly requested to use the battery delivered from GPETI in strict accordance with the specification in this document. Improper usage of the battery may cause fire or even explosion. GPETI will not guarantee against any accidents occurring due to use outside those written in this specification. GPETI shall not responsible against any accident caused by matters which is not written in this specification.

8. Limited Warranty

GPETI will be responsible for replacing the battery pack against defects in workmanship and materials for a period of 12 months from manufacture code that GPETI can confirm such defects are coming from manufacturing abnormality. Any other problem is not under this limited warranty.

GPETI makes no warranties against any accidents occurring due to use outside scope and application written in this document.

GPETI makes no warranties against any losses or lost earnings incurred by the customer or third parties arising from any usage of the battery.

GPETI makes no other warranties expressed or implied except as provided in this limited warranty.

9. Precautions

9.1. Handling & Usage

Never short-circuit the battery.
Never immerse in water.
Never expose to, or dispose of the battery in fire.
Avoid excessive physical shock or vibration.
Keep out of reach of children.
Never use a battery that appears to have suffered abuse.
Battery must be charged with an appropriate charger only.
Never use a modified or damaged charger.

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9.2. Charging

Never connect the battery directly to an electric outlet or cigarette heater socket in a car.
Never charge the battery near fire or in a car under the blazing sun.
Never use a battery in a potentially hazardous environment.
Discontinue charging after specified charging time even if the charging is not completed.

9.3. Discharging

Specified product use only. Never use the battery with any equipment other than specified.
Never use a battery in a potentially hazardous environment.
Never use the battery in a place near fire, heaters, or high temperature sources.

9.4. Storage

Never store the battery in hot and/or humid environment.
Never store the battery in a potentially hazardous environment.
Never store the battery in a full state of charge.
Never store the battery as a load is connected.
Never put the battery in a microwave oven or a pressure cooker.
Store in a cool, dry and well-ventilated area.

9.5. Disposal

Regulations vary for different countries. Dispose of in accordance with local regulations.

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10. Air-sea-road Transport

The stated battery is complied with UN manual tests of Criteria ST/SG/AC.10/11/Rev.6, Part III, Section 38.3, where the published "Model Regulations" and "Manual of Tests and Criteria" are the basis for most international shipping regulations. These include:

IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
ADR	ECE Inland Transport Committee (Europe Road)
DOT	US Department of Transportation

11. Green Policy

The stated battery supplied to your company contains the hazard substances that are all below the threshold concentration levels mentioned in Battery Directive 2006/66/EC.

Controlled Substances	**Declaration threshold (mg/Kg)**
Lead (Pb)	<40
Mercury (Hg)	<5
Cadmium (Cd)	<20

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12. Cell Specification

Document Number: DGCB-LRS-0002 Revision: R01 Page 1 of 5

Revision History

Revision	**Date**	**Initiator**	Reason for Change
01	29 Jul, 2024	Sau Ming Kwan	New Issue as company name revised, to follow new document system; and SKU# changed; and BAD updated in section 1

Prepared By	**Approved By**
Sau Ming Kwan Date: 29 Jul, 2024	Ming De Wang Date: 29 Jul, 2024

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1. APPLICABILITY

The specification is applicable to GP rechargeable lithium ion cell.

GP Model	:	GP18650-15HT
SKU no	:	GPRLC18HG055
Cell Size	:	Diameter = 18.4 mm Max and Height = 65.5mm Max (Dimension is with cell sleeve)
IEC designation	:	IFpR19/66
Chemistry	:	Lithium Iron Phosphate - graphite (3.65V)
Energy Density	:	283Wh/L
Certifications	:	EU Battery Regulation (EU) 2023/1542
	:	UN38.3
	:	UL1642 (Certified by TÜV SÜD)
	:	IEC62133-2:2017

2. RATINGS

2.1	Rated voltage	:	3.2V
2.2	Rated capacity #	:	1500mAh (minimum)
2.3	Standard charge *	:	Constant current at 750mA to 3.65V, constant voltage at 3.65V to 30mA cut-off.
2.4	Standard discharge *	:	Constant current at 300mA to 2.0V
2.5	Maximum charge current *	:	1500mA
2.6	Maximum discharge current *	:	3000mA
2.7	Internal impedance *	:	≤ 45mohm
2.8	Cell weight	:	≤ 45g
2.9	Operating temperature*	:	0°C to 60°C (charge) -20°C to 60°C (discharge)
2.10	Storage temperature^	:	-20°C to 45°C (1 month) -20°C to 40°C (6 months) -20°C to 35°C (12 months)
2.11	Safety feature	:	A CID and a vent are incorporated into the cell.

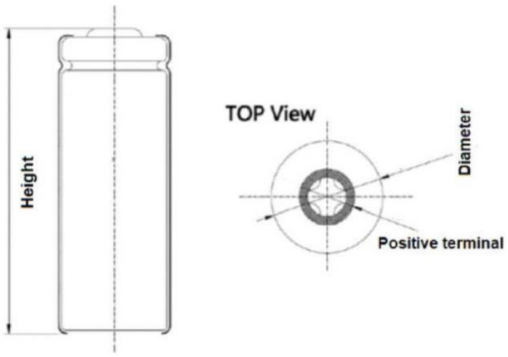
Based on standard charge/discharge
* Temperature @ 25 ± 5°C
^ Up to 70°C occasionally

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3. CONFIGURATION AND DIMENSIONS

- Height: 65.5 mm Max
- Diameter: 18.4 mm Max



4. TYPICAL CHARACTERISTICS

STANDARD TEST CONDITIONS

Unless otherwise specified, all tests should be conducted within one month of delivery under the following conditions:

Ambient Temperature : 25 ± 5°C
Relative Humidity : 65 ± 20%

Item	Criteria		Test Conditions
Capacity	≥ 1500mAh		Standard charge and standard discharge described at IEC61960
Internal Impedance	≤ 45mohm		Measure AC impedance at 1kHz within 1 hour after standard charge as described at section 2.3
Discharged Capacity at Different Temperatures	-20°C	40%	Standard charge cell as described at section 2.3. Place cell in the temperature to be tested for 2 hours and then discharge cell using standard discharge as described at section 2.4 and at specified temperature.
	0°C	80%	
	25°C	100%	
	60°C	95%	

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Cycle Life	≥ 70% of initial discharged capacity	Measure discharged capacity after conducting 1000 cycles of charge/discharge at 0.5C/0.5C with cut-off voltage at 2.0V.
Charge Retention	≥ 80% (retention) ≥ 90% (recovery)	Measure standard discharge capacity of cells after standard charge to 100% SOC and stored at 20 ± 5°C for 28 days.
Service Life	≥ 5 years	• Operating temperature range: 0-55°C • Cell voltage range in floating charging: 3.40 - 3.65V • Charge current: 150mA • Discharge time requirement§: (a) > 1 hour at 1050 mA (b) > 2 hours at 565 mA (c) > 3 hours at 375 mA

§ Discharge temperature range: 40-50°C

5. CHARGE STATE OF CELL BEFORE SHIPMENT

Maximum 30% SOC delivery (Requirement for air shipment)
Other SOC requirement, please consult with GPETI for details.

6. WARRANTY

One-year limited warranty against workmanship and material defects. For using this cell, please contact your nearest GPETI Sales and Marketing office or Distributors.

7. SAFETY PRECAUTION

Please follow the safety precaution carefully as improper handling of lithium-ion batteries may result in injury or damage from electrolyte leakage, heating ignition or explosion. To ensure safety, consult with GPETI regarding the charge and discharge specifications, equipment structure, warning labels and other important details when designing equipment to use GP rechargeable lithium-ion batteries.

Never charge the battery above 3.65V by charger.
Never reverse charge the battery.
Never heat or incinerate the battery.

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Never pierce, crush or cause mechanical damage to the battery.
Never charge a battery at high temperature conditions, such as at or near a fire.
Never short circuit the battery.
Never discharge a battery to below 2.0 V by device
Never recharge a battery when battery is below 1.9V
Never allow the battery to get wet or be immersed in water.
After 6 months storage, battery may require recharge up to 30% SOC to recover capacity.
GPETI will not be liable to accidents caused by improper use.

The Cell shall be used with a PCM which can protect cell properly.
The PCM shall have following functions at a minimum (a) overcharging protection; (b) over-discharging protection and (c) over current protection, to maintain safety and significant deterioration of cell performance.

a. Overcharging protection
- Overcharging protection function shall work if any cells or batteries reach 3.925V maximum at which charging should be stopped.

b. Overdischarge protection
- Overdischarging protection function shall work if any cells or batteries reach 1.95V minimum at which discharging should be stopped.

c. Overcurrent protection
- Overcurrent protection should be used. The level should be specific to application. Please consult GPETI for details.

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13. Protection Circuit Diagram

2、 规格 SPECIFICATION

2.1、适用范围：本文件仅适用于PCBNTA3634锂电池保护板，
Using scope: The document only applies to Li-ion battery protection module, PCBNTA3634

2.2、电池容量 Battery capacity mAh 电池封装方式 Battery pack mode 软包soft packing

2.3、环保要求 Environment request ☑ ROHS ☑ Halogen-Free ☐ REACH ☐ NP ☐ SONY-GP

2.4、功能描述 Function description 过充保护 Over charge protection 过放保护 Over discharge protection 过流保护 Over current protection 短路保护 Short circuit protection

2.5、技术参数 Electric Features :

保护IC: Protection IC:	S-8261ACEMD-G4ET2X (R5478N203CK)	参数值 parameter value 常温25℃ General temperature 25℃			
项目 item		最小值 Min.	典型值 Type value	最大值 Max.	单位 Unit
过充保护电压 Over charge protection voltage		3.875	3.900	3.925	V
过充保护恢复电压 Over charge release voltage		3.750	3.800	3.850	V
过放保护电压 Over discharge protection voltage		1.95	2.00	2.05	V
过放保护恢复电压 Over discharge release voltage		2.250		2.563	V
放电过流检测电压 Over current detection voltage		0.085	0.100	0.115	V
放电过流保护电流 Over current protection current		3.0		7.0	A
过充保护延迟时间 Over charge protection delay time		700		1400	ms
过放保护延迟时间 Over discharge protection delay time		14		173	ms
放电过流保护延迟时间 Over current protection delay time		7.2		16.0	ms
短路保护延迟时间 Short protection delay time		220		500	us
正常状态下静态电流 Current consumption (Operation)				7.0	uA
过放状态下静态电流 Current consumption (Power down)				2.0	uA
导通内阻 Impedance				60	mΩ
输入电压(B+与B-间) Input voltage(B+ to B-)		-0.3		12	V
最大持续充电电流 Max continuous charge current				3.0	A
最大持续放电电流 Max continuous discharge current				3.0	A
工作温度 Operating temperature		-40		+85	℃
热敏电阻(25±5℃) Thermistor(25±5℃)		8.21	10.00	12.25	KΩ
推荐存储条件 Recommendatory storage condition		Temperature range: 18～28℃ Humidity: 40%～70%RH			
0V电池充电功能 0V battery charge function		允许Available			

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2.6 可靠性测试
RELIABILITY TEST

1)恒温恒湿测试 Humidity test :+40±2℃ 90%RH 48Hours

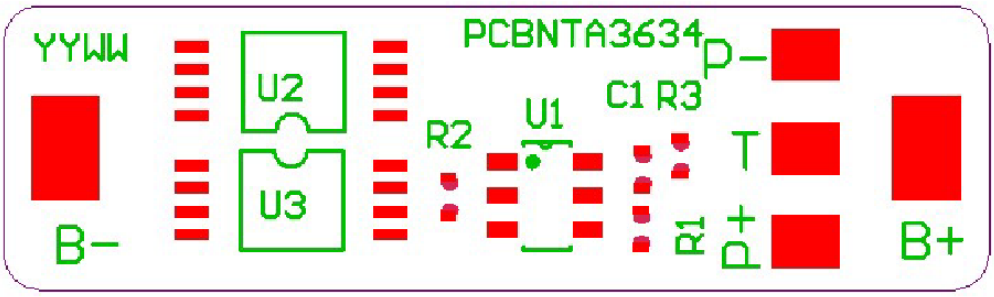
2)高温测试 High temperature test :+60±2℃ 2Hours

3)低温测试 Low temperature test :-20±2℃ 16Hours

4)ESD抗静电测试 ESD test : Normal operation in all parts

at ±4KV (CONTACT) ±8KV(AIR)condition

3、 焊盘说明
Pad description

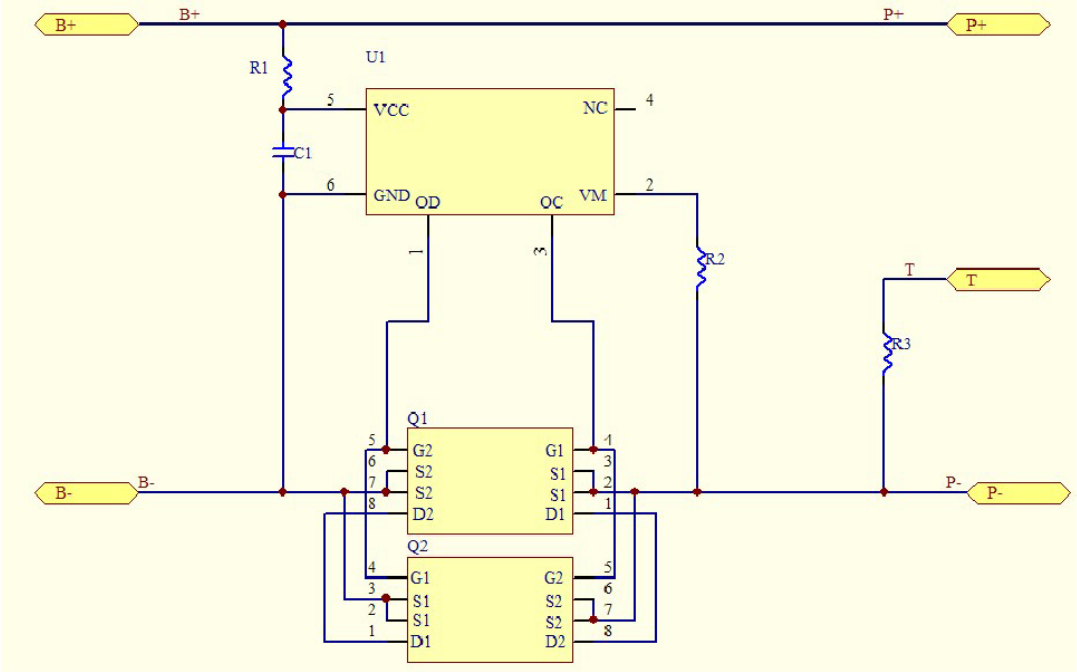


符号 Symbol	说 明 Description	符号 Symbol	说 明 Description
P+	接电池输出/充电输入的正端 Battery output/charging positive pole	B+ B1+	接电芯正极 Cell positive pole
P-	接电池输出/充电输入的负端 Battery output/charging negative pole	B-	接电芯负极 Cell negative pole
NTC	接热敏电阻端 NTC pole		

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4、 电气原理图
Circuit Diagram

A	new design
B	
C	

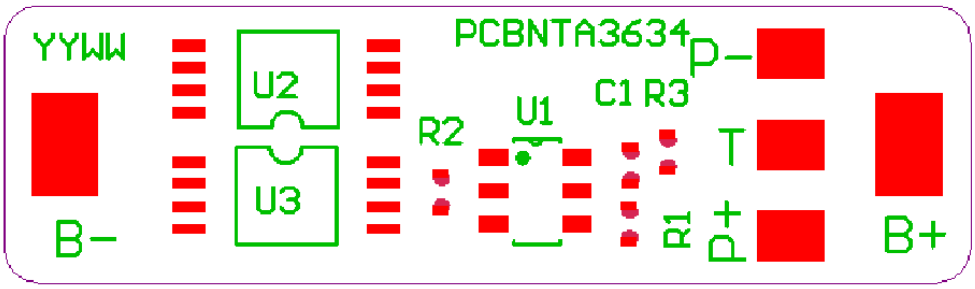


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DRAWING		DATE	2019/11/13
CHECK		REV	A
APPROVAL			

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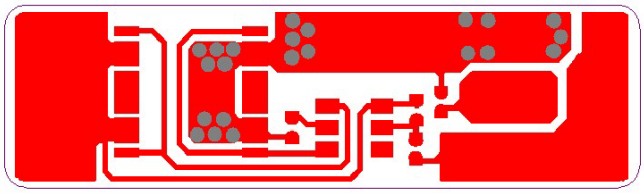
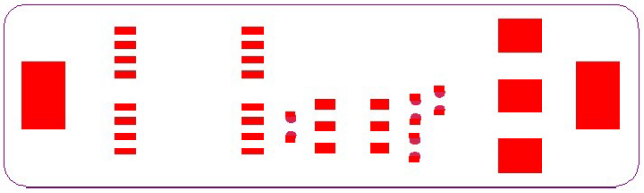
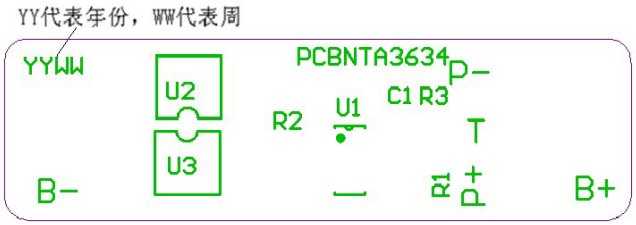
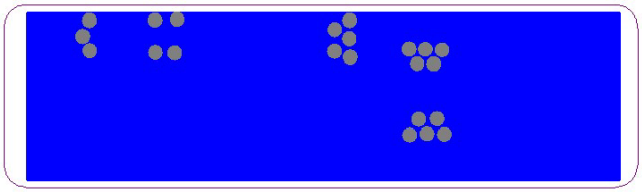
5、 **物料清单**
PARTS LIST



序号 NO.	物料名称/供应商 Description/vendor	代号 Symbol	型号/规格 Model/Spec.	单位 unit	数量 Q'ty
1	IC/ABLIC	U1	S-8261ACEMD-G4ET2X/SOT-23-6(丝印G4E*)	PCS	1
	IC/Ricoh		R5478N203CK/SOT-23-6(丝印520**)		
2	MOS/Developer	U2 U3	DP8205A/ TSSOP-8 （丝印8205A ******)	PCS	2
3	Chip Resistor/YAGEO	R1	470Ω/0402/±5% (ABLIC)	PCS	1
			330Ω/0402/±5% (Ricoh)	PCS	
4	Chip Resistor/YAGEO	R2	2.0K/0402/±5% (ABLIC)	PCS	1
			1K/0402/±5% (Ricoh)	PCS	
5	Chip capacitors/YAGEO	C1	Y5V/0.1uF/-20%+80%/0402/16V(ABLIC)	PCS	1
			X7R/0.01uF/±10%/0402/16V(Ricoh)	PCS	
6	NTC/TDK	R3	10K±1%/B=3435K/0402	PCS	1
7	PCB/JRD		28.5*8.0*0.8mm/Green oil	PCS	1
注：*是变化的丝印字母					

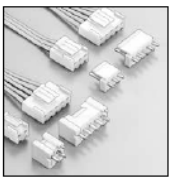
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6、 布线图
PCB Layout

顶层线路 TOP LAYER	
顶层阻焊 TOP SOLDER	
顶层丝印 TOP OVERLAYER	
底层线路 BOTTOM LAYER	
底层阻焊 BOTTOM SOLDER	
底层丝印 BOTTOM OVERLAYER	

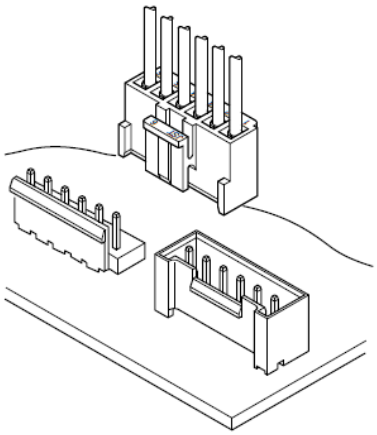
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Member
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14. Connector Specification



VH CONNECTOR

3.96 mm pitch/Disconnectable Crimp style connectors



This small, field-proven connector for printed circuit boards is reliable and has a large current carrying capacity. It can be used with a wide variety of signal, power supply, and output circuits that appear in consumer electronic products.

- Proven box contact
- Compact connector with a large capacity
- Secure contact and mounting

Specifications

- Current rating: 10 A AC/DC (AWG #16)
- Voltage rating: 250 V AC/DC
- Temperature range: -25℃ to +85℃
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 10 mΩ max.
  After environmental tests/ 20 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,500 VAC/minute
- Applicable wire: AWG #22 to #16
- Applicable PC board thickness: 1.6 mm

Note:
Do not branch in parallel current which exceeds the rated current. If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, be sure to use contacts made of phosphor bronze. Design the circuits without causing imbalance and provide an extra margin for each circuit.

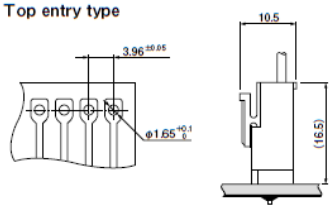
* In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).
* RoHS2 compliance
* Dimensional unit: mm
* Contact JST for details.

Standards

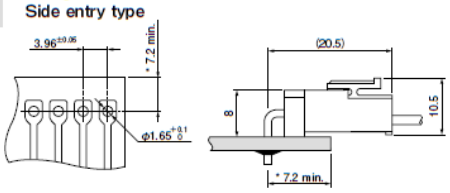
Recognized E60389
Certified LR20812
R75122

PC board layout and Assembly layout

Locking header
Top entry type

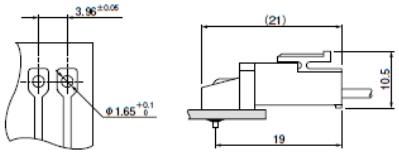


Locking header
Side entry type

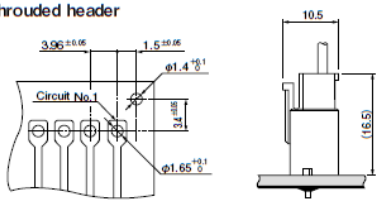


* 11.0 max. when used with the VR connector receptacle.

Locking header
Side entry type with PCB stabilizer



Shrouded header



Note: 1. The above figure is the figure viewed from soldering side.
2. Tolerances are non-cumulative: ± 0.05 mm for all centers.
3. Please consider the pattern layout design in case of applying the large current.
4. Hole dimensions differ according to the type of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.

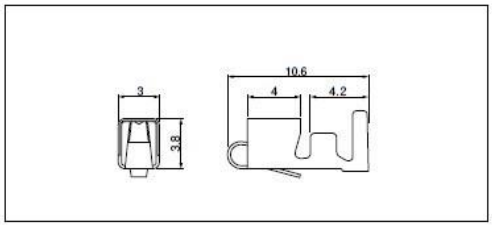
1 JST

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VH CONNECTOR

Contact



Model No.	Applicable wire		Insulation O.D. (mm)	Q'ty/reel
	mm²	AWG #		
SVH-21T-P1.1	0.33 to 0.83	22 to 18	1.7 to 3.0	4,500
SVH-41T-P1.1	0.5 to 1.25	20 to 16	1.7 to 3.0	3,500

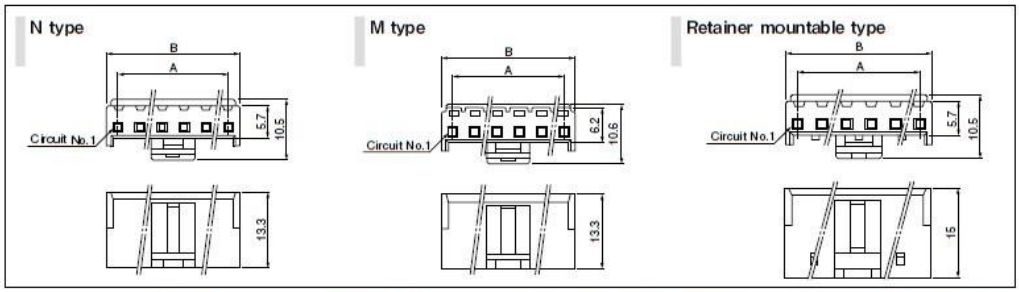
Material and Finish
Phosphor bronze, tin-plated (reflow treatment)

RoHS2 compliance
Note: When using retainer mountable type housing, applicable wire's insulation O. D. shall be 1.7 to 2.2 mm.

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SVH-21T-P1.1	AP-K2N	MKS-L	MK/SVH-21-11	APLMK SVH21-11
SVH-41T-P1.1			MK/SVH-41-11	APLMK SVH41-11

Note: Contact JST for fully automatic crimping applicator.

Housing



No. of circuits	Model No.			Dimensions (mm)		Q'ty/bag
	N type	M type	Retaine mountable type	A	B	
2	VHR-2N	VHR-2M	VHRR-2N	3.96	7.86	1,000
3	VHR-3N	VHR-3M	VHRR-3N	7.92	11.82	(*)
4	VHR-4N	VHR-4M	—	11.88	15.78	1,000
5	VHR-5N	VHR-5M	VHRR-5N	15.84	19.74	(*)
6	VHR-6N	VHR-6M	—	19.80	23.70	500
7	VHR-7N	VHR-7M	VHRR-7N	23.76	27.66	500
8	VHR-8N	—	VHRR-8N	27.72	31.62	500
9	VHR-9N	VHR-9M	VHRR-9N	31.68	35.58	500
10	VHR-10N	—	—	35.64	39.54	500
11	VHR-11N	—	—	39.60	43.50	500

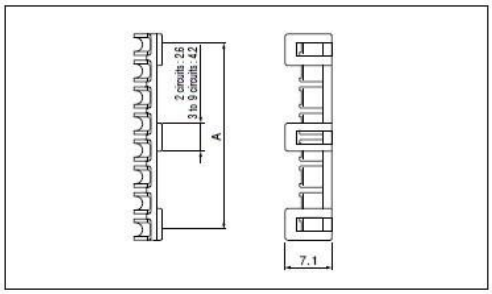
Material and Finish
PA 6, UL94V-0, natural (white)

RoHS2 compliance

Note: 1. Models identified as VHR-( ) M incorporate measures to prevent electric shock and are thus safer in regard to high voltages.
2. The applicable housing for 2 circuits shrouded header is "VHR-2N" only. "VHRR-2N" is not applicable.
3. Contact JST for Glow Wire compliant connectors.

(*) N / M type ; 1,000
Retainer mountable type ; 500

Retainer



No. of circuits	Model No.	A	Q'ty/bag
2	VHS-2V	3.70	1,000
3	VHS-3V	7.52	1,000
5	VHS-5V	15.44	1,000
7	VHS-7V	23.36	1,000
8	VHS-8V	27.32	1,000
9	VHS-9V	31.28	1,000

Material and Finish
Glass-filled PA 66, UL94V-0, natural (ivory)

RoHS2 compliance

JST 2

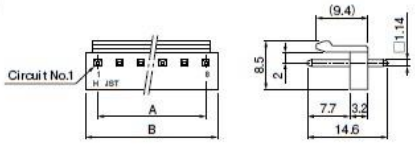
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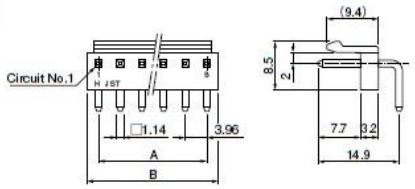
VH CONNECTOR

Locking header

Top entry type



Side entry type

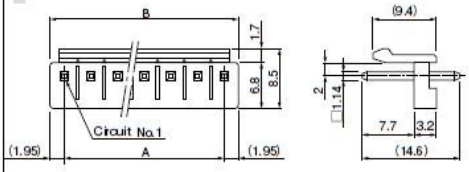


No. of circuits	Model No.		Dimensions (mm)		Q'ty/box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	B2P-VH	B2PS-VH	3.96	7.86	1,000	1,000
3	B3P-VH	B3PS-VH	7.92	11.82	1,000	500
4	B4P-VH	B4PS-VH	11.88	15.78	500	500
5	B5P-VH	B5PS-VH	15.84	19.74	500	250
6	B6P-VH	B6PS-VH	19.80	23.70	250	250
7	B7P-VH	B7PS-VH	23.76	27.66	250	250
8	B8P-VH	B8PS-VH	27.72	31.62	200	200
9	B9P-VH	B9PS-VH	31.68	35.58	200	200
10	B10P-VH	B10PS-VH	35.64	39.54	200	100

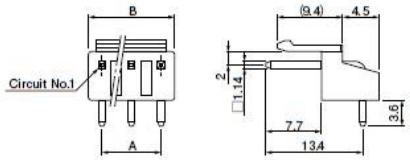
Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: PA 66, UL94V-0, natural (white)

RoHS2 compliance This product displays (LF)(SN) on a label.
Note: 1. Headers with a reduced number of posts are also available. Contact JST for details.
2. Contact JST for Glow Wire compliant connectors.

Top entry type of PBT



Side entry type with PCB stabilizer



No. of circuits	Model No.		Dimensions (mm)		Q'ty/box	
	Top entry type of PBT	Side entry type with PCB stabilizer	A	B	Top entry type	Side entry type
2	B2P-VH-B	S2P-VH	3.96	7.86	1,000	1,000
3	B3P-VH-B	S3P-VH	7.92	11.82	1,000	500
4	B4P-VH-B	S4P-VH	11.88	15.78	500	500
5	B5P-VH-B	S5P-VH	15.84	19.74	500	250
6	B6P-VH-B	S6P-VH	19.80	23.70	250	250
7	B7P-VH-B	S7P-VH	23.76	27.66	250	250
8	B8P-VH-B	—	27.72	31.62	200	—
9	B9P-VH-B	—	31.68	35.58	200	—
10	B10P-VH-B	—	35.64	39.54	200	—
11	B11P-VH-B	—	39.60	43.50	200	—

Material and Finish
Post: Brass, copper-undercoated, tin-plated (reflow treatment) Wafer: Top entry type of PBT: Glass-filled PBT, UL94V-0, natural (white) Side entry type with PCB stabilizer: PA 66, UL94V-0, natural (white)

RoHS2 compliance This product displays (LF)(SN) on a label.

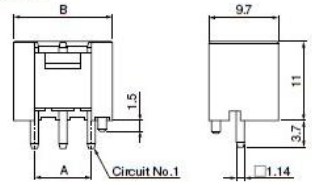
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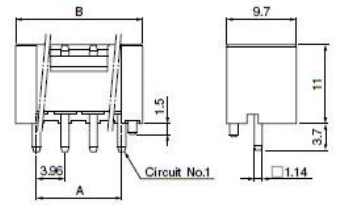
VH CONNECTOR

Shrouded header

<2 , 3 circuits>



<4 to 10 circuits>



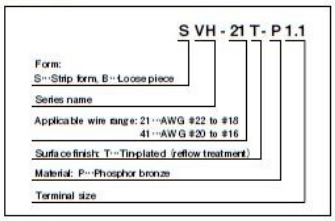
No. of circuits	Model No.	Dimensions (mm) A	Dimensions (mm) B	Q'ty/box
2	B2P-VH-FB-B	3.96	9.80	250
3	B3P-VH-FB-B	7.92	13.76	200
4	B4P-VH-FB-B	11.88	17.72	150
5	B5P-VH-FB-B	15.84	21.68	200
6	B6P-VH-FB-B	19.80	25.64	200
7	B7P-VH-FB-B	23.76	29.60	100
8	B8P-VH-FB-B	27.72	33.56	100
9	B9P-VH-FB-B	31.68	37.52	100
10	B10P-VH-FB-B	35.64	41.48	125

Material and Finish
Post: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Wafer: Glass-filled PBT, UL94V-0, natural (white)

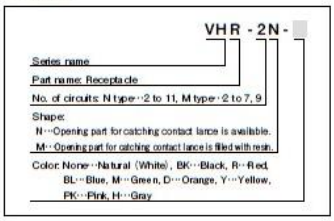
RoHS2 compliance This product displays (LF)(SN) on a label.
Note: The applicable housing for 2 circuits shrouded header is "VHR-2N" only. "VHRR-2N" is not applicable.

Model number allocation

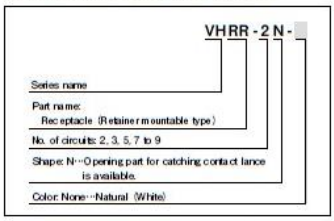
Contact



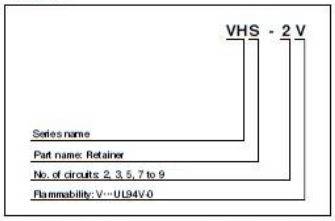
Housing



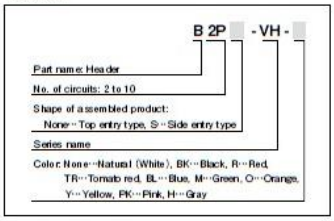
Retainer mountable type housing



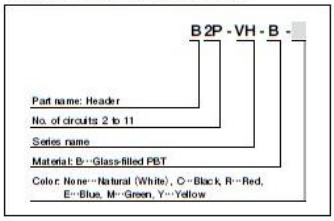
Retainer



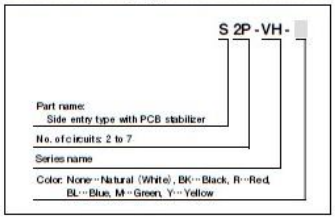
Header



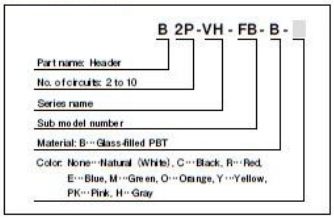
Header Top entry type of PBT



Header Side entry type with PCB stabilizer



Shrouded header



Note: Depending on the colors, it may take some time for delivery.

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VH CONNECTOR

Post-omitted Header

1) When giving the polarity to the product by removing the post (N-1)th circuit
However, since the product that the 2nd post of 3-circuit connector is omitted doesn't have polarity, select 3).

B *1 P *2 -VH

*1; No. of circuits (No. of posts)
*2; Circuit No. of used original header

e.g.)

Circuit No.	1	2	3	4	5	6	7
Circuit (post)	○	○	○	○	○	×	○
Model No.	B6P7-VH						

○; With circuit (post) ×; Without circuit (post)

2) When giving the polarity to the product by removing the post in 2nd circuit
However, since the product that the 2nd post of 3-circuit connector is omitted doesn't have polarity, select 3).

B *1 P *2 -VH-L

e.g.)

Circuit No.	1	2	3	4	5	6	7
Circuit (post)	○	×	○	○	○	○	○
Model No.	B6P7-VH-L						

3) When the pitch is set again
1. When setting two times of pitch with omitting every other one post
However, posts shall be inserted in No.1-circuit and No. N-circuit.

B *1 P *2 -VH

e.g.)

Circuit No.	1	2	3	4	5	6	7
Circuit (post)	○	×	○	×	○	×	○
Model No.	B4P7-VH						

2. When setting three times of pitch with omitting every other two posts
However, posts shall be inserted in No.1-circuit and No. N-circuit.

B *1 P *2 -VH

e.g.)

Circuit No.	1	2	3	4	5	6	7
Circuit (post)	○	×	×	○	×	×	○
Model No.	B3P7-VH						

3. When setting four times of pitch with omitting every other three posts
However, posts shall be inserted in No.1-circuit and No. N-circuit.

B *1 P *2 -VH

e.g.)

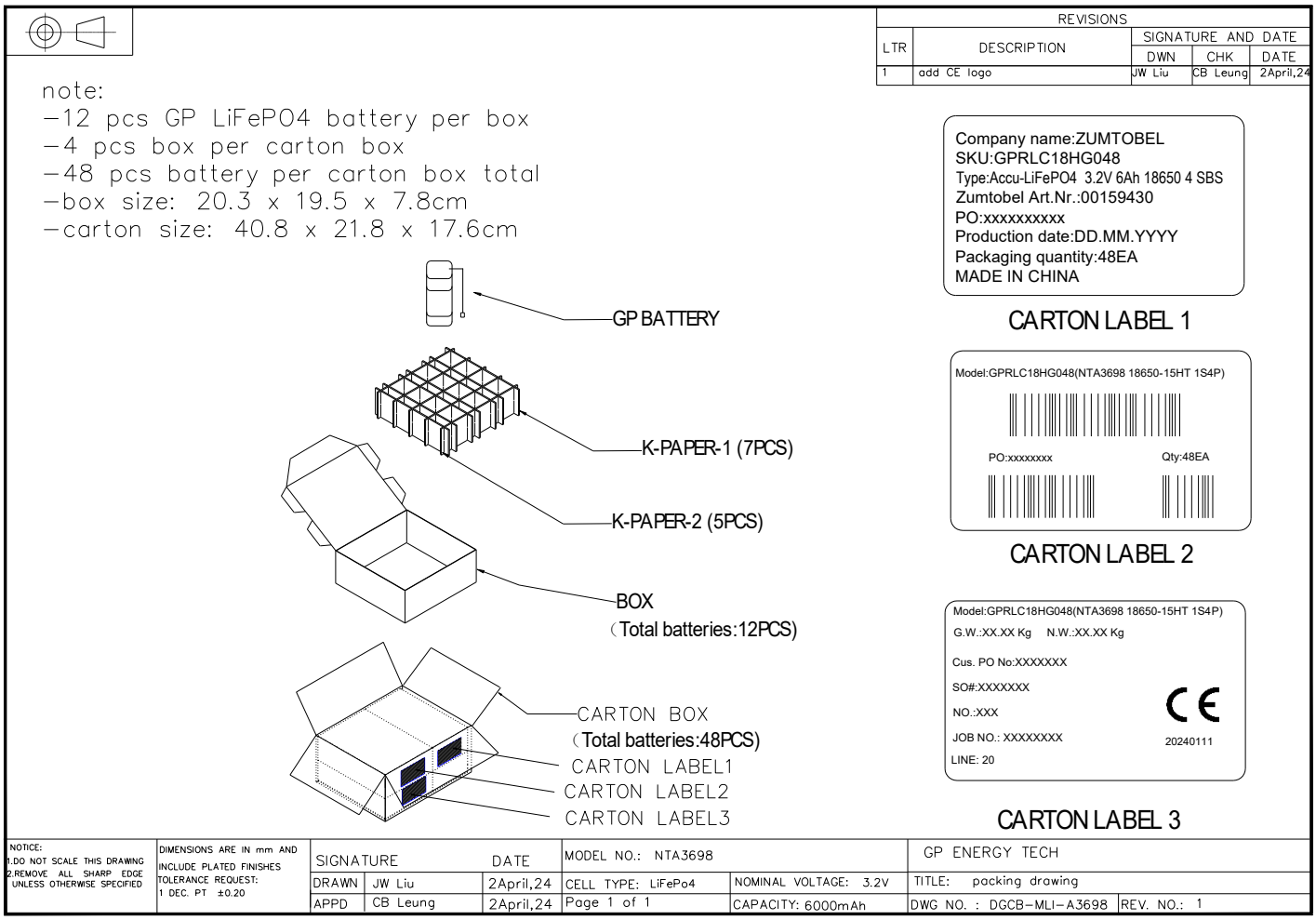
Circuit No.	1	2	3	4	5	6	7	8	9
Circuit (post)	○	×	×	×	○	×	×	×	○
Model No.	B3P9-VH								

5 JST

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15. Packaging



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