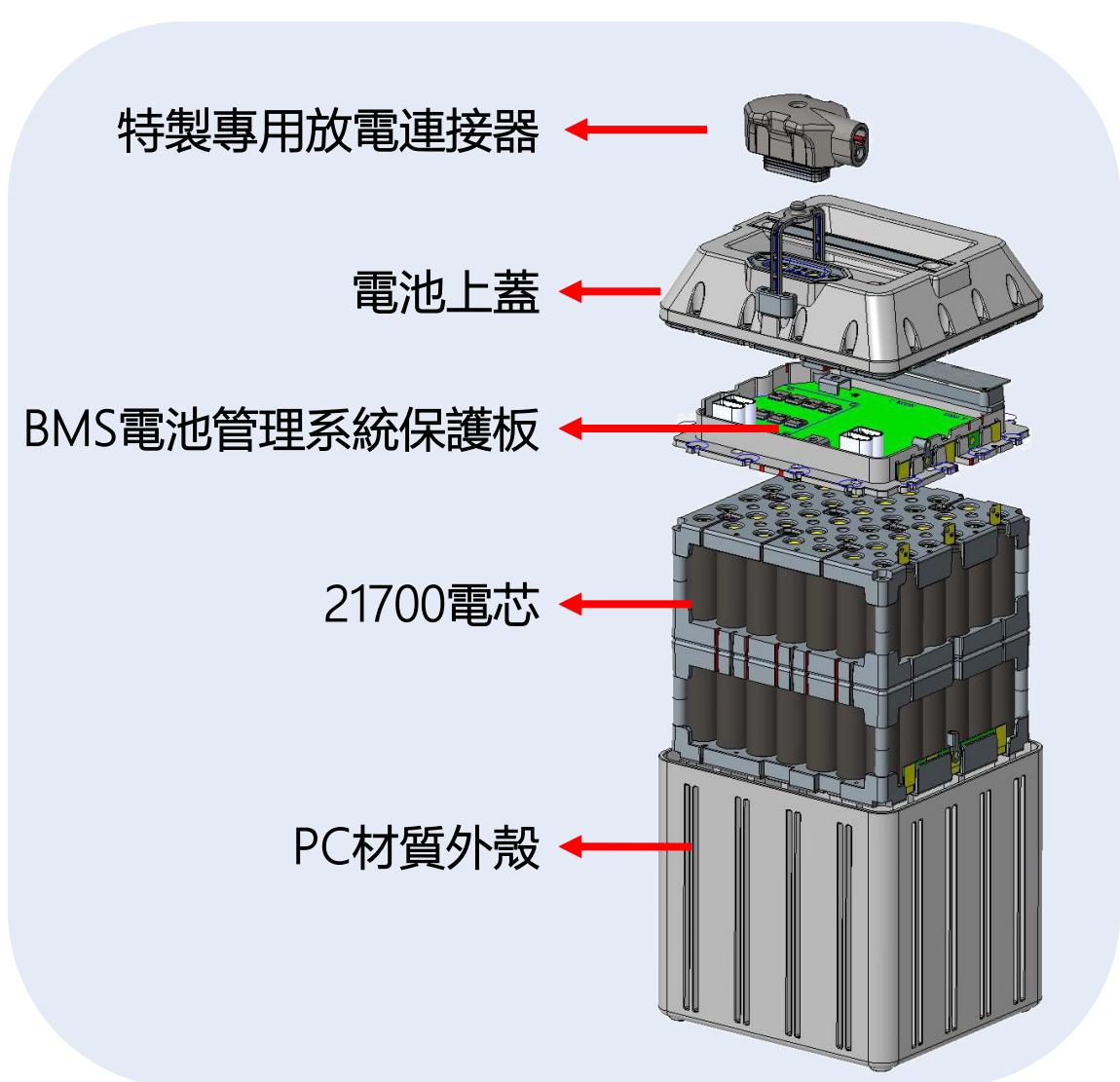




RX481K5 & SP481K0

電動自行車用
二次鋰電池組簡介

結構及外觀: RX481K5



產品規格: RX481K5

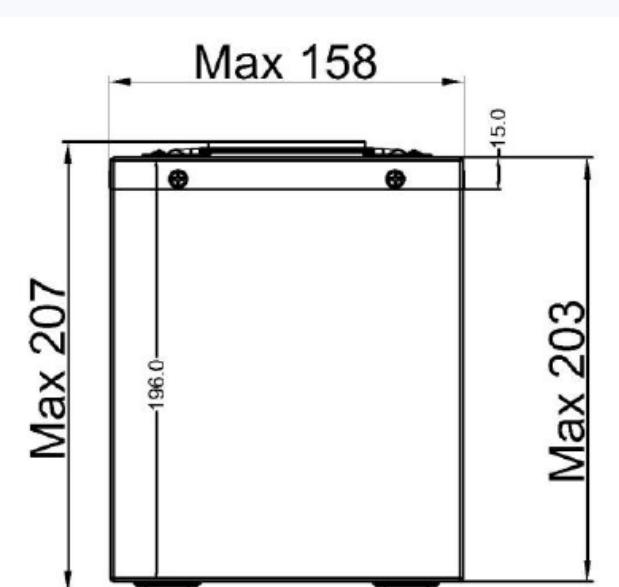
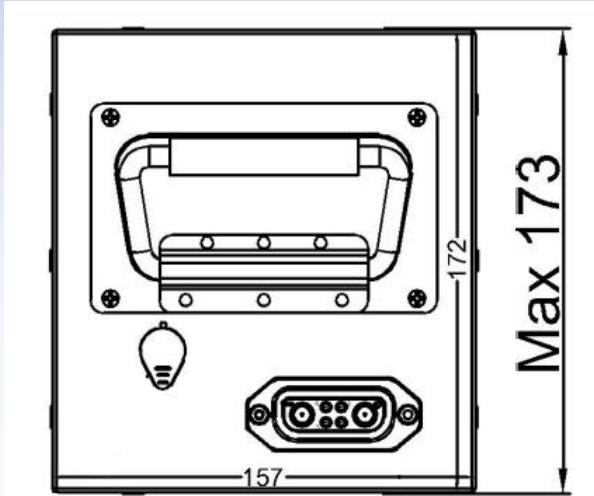
方便提取設計



電池組型號	RX481K5
標準額定值	平均1,446Wh, 51.66V, 28Ah 最小1,421Wh, 51.66V, 27.5Ah
重量	約8.3公斤
尺寸	185長X170寬X217.5高 mm
放電電流	連續30A, 最大50A (10分鐘)
標準充電時間	6小時達到90% (單個58.4V, 5A充電器)
環境溫度 (充電)	+0 °C ~ 45 °C
環境溫度 (放電)	-20 °C ~ 55 °C
防塵防水等級	IP56



結構及外觀: SP481K0



產品規格: SP481K0

方便提取設計



電池組型號	SP481K0
標準額定值	平均1062.88Wh, 51.1V, 20.8Ah 最小970.9Wh, 51.1V, 19Ah
重量	約8.6公斤
尺寸	173長X158寬X207高 mm
放電電流	連續20A, 最大40A (10分鐘)
標準充電時間	4小時達到90% (單個58.4V, 5A充電器)
環境溫度 (充電)	+0 °C ~ 45 °C
環境溫度 (放電)	-20 °C ~ 55 °C
防塵防水等級	IP65



專用充電器

型號: BPC-L14S050R1

最大充電電壓: $58.4V \pm 0.2V$

充電電流: $5.0A \pm 0.2A$

輸入電壓/電流: $110Vac, 60Hz, 5.0A Max.$

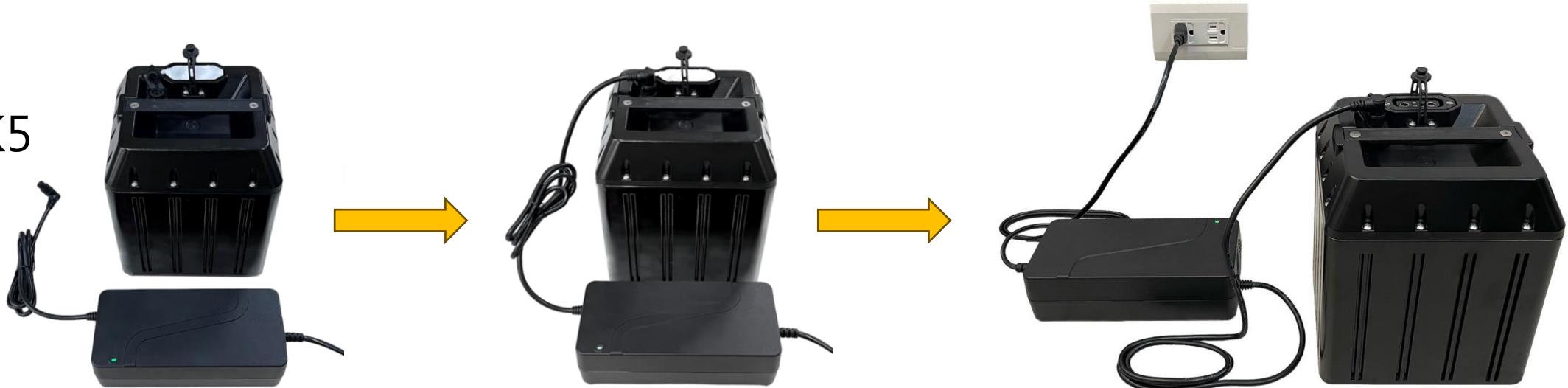


充電器燈號說明

指示燈號	狀態
綠色LED每2秒閃爍一次	低壓預充電
綠色LED每1秒閃爍一次	充電中
綠色LED每0.3秒閃爍一次	充電超過90%
綠燈恆亮	充電完成／待機
紅燈快速閃爍	異常狀態

充電示意圖

RX481K5



SP481K0



安規認證測試

	RX481K5	SP481K0	他牌
BSMI CNS15387	Pass	Pass	?
BSMI CNS15424-1	Pass	Pass	?
UN38.3	Pass	Pass	?
振動測試	Pass	Pass	?
衝擊測試	Pass	Pass	?
擠壓測試	Pass	Pass	?
落下測試	Pass	Pass	?
過放電測試	Pass	Pass	?
過充電測試	Pass	Pass	?
部分短路測試	Pass	Pass	?
連接器插拔耐久測試	Pass	Pass	?
溫濕循環測試	Pass	Pass	?
防塵防水等級(IP)	56	65	?



BMS保護機制



	RX481K5	SP481K0	他牌
過電壓保護	✓	✓	?
低電壓保護	✓	✓	?
各串電芯電壓不平衡保護	✓	✓	?
過電流保護	✓	✓	?
過高溫保護	✓	✓	?
過低溫保護	✓	✓	?
短路保護	✓	✓	?

產品特點



	RX481K5	SP481K0	他牌
電池容量	28Ah	20Ah	< 20Ah
通訊協議	CANBUS	CANBUS	?
藍牙連線功能	√	✗	?
OTA更新功能	√	✗	?
產品生產履歷	√	√	?
黑盒子記錄功能	√	√	?
Key on喚醒功能	√	√	?
露營寶 (1200W DC to AC電源轉換器)	√	√	?
反電動勢回充	√	√	?
自動睡眠/關機模式	√	√	?
專屬APP	√	✗	?
專用檢測儀器 (COP30或上位機)	√	√	✗



本產品已通過BSMI經濟部標準檢驗局認證

製造商：統量電能股份有限公司

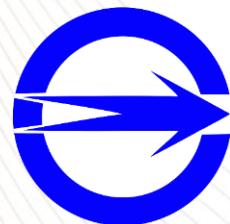
產品名稱：電動自行車用二次鋰電池組

電池代碼：14CNi-Mn-CoR22/71-6

額定容量：28 Ah

充電電壓：58.4V

額定電壓：51.66 VDC



R3G191





本產品已通過BSMI經濟部標準檢驗局認證

製造商：統量電能股份有限公司

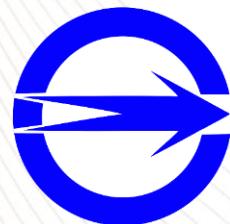
產品名稱：電動自行車用二次鋰電池組

電池代碼：14CNi-Mn-CoR19/66-8

額定容量：20 Ah

充電電壓：58.4V

額定電壓：51.1 VDC



R3G191

已投保富邦產物保險
新台幣三千萬元整



Fubon Insurance Co. Ltd.
7-14F, No. 179, Liaoing St., Zhongshan Dist., Taipei
City, Taiwan, Republic of China
TEL: 886-2-6636 7890
免費申訴電話 (Toll-Free Number): 0800-009-888

CERTIFICATE OF INSURANCE

Date: May 8, 2024

This certificate is issued as a matter of information only and conferred no rights upon the certificate holder.
This certificate does not amend, extend or alter the coverage afforded by the policies below.

Company affording coverage : Fubon Insurance Co., Ltd.

Named Insured : GWA ENERGY, INC.

Certificate Holder : To Whom It May Concern

Note : Certificate holder is an Additional Insured only if directly contracted with the Named Insured and qualified as an Additional Insured under Additional Insured – Broad Form of Vendors Clause.

This is to certify that policy of insurance listed below has been issued to the Insured named above for the policy period indicated. Notwithstanding any requirement, term or condition of any contract or other document with respect to which this certificate may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions, and conditions of such policy.

Type of Insurance : Commercial General Liability Insurance - Products Liability

Policy No. : 0500-24APD0000074

Insured Products : Battery packs, chargers, lithium cells, cell optimization kits, motors, controllers, speed sensors, Torque sensors, LED consoles, LCD consoles, brake levers, connectors, cable sets, protection circuit modules (PCM), and other related accessories, for examples, data readers, eBike diagnostic tools, Bluetooth module, Battery calibration charger, GWAConnect APP or GWA-Provided APP, etc., which are manufactured or distributed by the named insured and sold to the Coverage Territory of this policy.

* This policy would not cover the Insured Products applied to the electric driven vehicles of which the motor ratings exceed 1000W. (Warranted that all products insured are complied with statutory requirement and other mandatory and / or voluntary industrial / safety standards of importing countries and the rechargeable batteries must be equipped with safety devices or fitted with vent-release valves.)

Policy Period : From April 08, 2024 to April 08, 2025

(from noon of standard time at your mailing address)

Limit of Insurance : USD1,000,000.00 Each Occurrence / USD2,000,000.00 Policy Aggregate

Coverage Territory / Jurisdiction : Worldwide including Taiwan

Cancellation:

Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provision.

Fubon Insurance Co., Ltd.

Amanda Wang
Assistant Vice President
Casualty Insurance Product Department