

XUPAI 旭派®

6-QTF-80
(LN4)

甄 选
Selection



XUPAI 旭派®

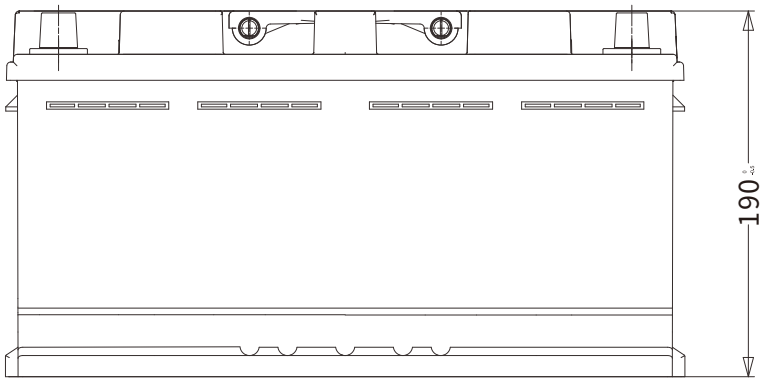
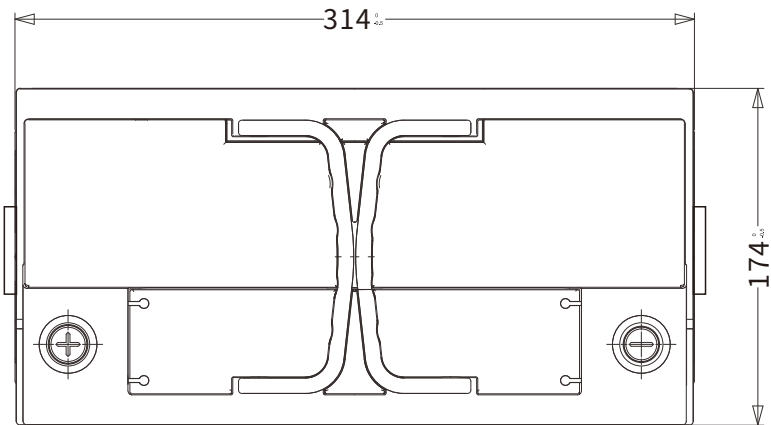
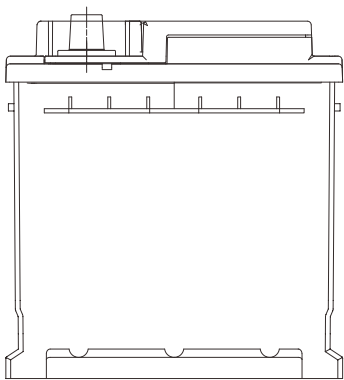
Long
Life
Battery



★采用无镉高锡高纯度铅合金制造的蓄电池极板，有着卓越的抗氧化和耐腐蚀能力，避免了一般铅锑、铅钙合金极板因析氢而带来的不良影响，减缓了蓄电池的失水量，提高了循环次数。

Being made of high pure lead alloy with high tin and no antimony, battery plates have excellent resistance to oxidation and corrosion, avoiding the adverse effects due to hydrogen evolution that are typical of lead-antimony and lead-calcium alloy plates, minimizing water loss and improving cycle times.

壳体尺寸：
Dimension



■ 电池参数 | PARAMETER

型 号 Model	6-QTF-80	执行标准 Standard	GB/T 5008-2013		
电池电压 Voltage	12V	储备容量 (RC)	140		
起动电流 (CCA)	800A	单格片数 Number of plates	17片/P		
含液重量 weight with electrolyte	22.5kg				
外型尺寸 Dimension			极性 Layout	端子类别 Terminal type	
长 Length	宽 width	高 Height	总高 Total height	R	圆 Standard
314mm	174mm	190mm	190mm		



★我们采用美国超高分子量聚乙烯材料生产的PE隔板，是目前国际上蓄电池行业中免维护蓄电池优先选用的蓄电池隔板材料。

★它除了生产制造成本高外，具备了低电阻率、小孔径、高孔隙率、耐氧化、抗穿刺、耐磨损等优点。由于采用了袋式结构，从根本上避免了因活性物质脱落造成的两极短路，极大的延长了蓄电池的使用寿命。

We use PE separators made from American ultra-high molecular weight polyethylene, which is the foremost preferred battery separator 8rial in the international battery industry for the manufacturing of maintenance-free batteries.

Apart from high production costs, it has many advantages, such as low resistivity, small aperture, high porosity, oxidation resistance, anti-cture, and durability. Using the bag structure to fundamentally avoid the short circuit between two poles caused by the falling of active erials, which extends battery life greatly.

■ ■ ■ **端 子**：压铸成型无焊接端子，是本公司发明专利技术，采用高锡铅合金压铸成型，合金密度高、电阻小，提高了端子可承载大电流放电的负荷能力。端子与聚丙烯盖体注塑融合一体，避免了端子因渗酸被氧化腐蚀。结构设计独特、安全可靠、外型美观大方。

Terminals: Die-cast weldless terminals, our company's patented technology, uses high-tin lead alloy which possess high alloy density and low resistance, which improves high current discharge load capacity of the terminal. The terminals are integrated with the polypropylene cover to prevent oxidation corrosion of the terminal from acid infiltration. Uniquely designed, safe, reliable, and attractive.

■ ■ ■ **电量显示器**：独特的荷电状态密度计，有绿色、黑色、白色之别的荷电量显示器，清晰可见。

Charge status indicator: Unique density meter with clearly visible green, black, and white colors that indicate the charge status of the battery.

■ ■ ■ **滤酸隔爆片**：在电池充电过程中可防酸雾溢出、阻止电池外部遇火焰引起的爆炸。

Vent plug and flame arrestor: Avoids overflow of acid mist during the charging process, and prevents nearby flames from causing an explosion.

■ ■ ■ **极 板**：采用独特活性物质配方，活性物质利用率得以提高，电池的大电流放电性能和充电接受能力进而提升，可适用于大电流冲击放电的使用要求。过量设计了负极活性物质，保证了正极在充电后期产生的氧气充分扩散到负极，与负极海绵状铅反应再化合成水，防止了电池在充电过程中氢在负极析出，实现了电池内部氧复合循环，赋予了阀控蓄电池优异的高倍率放电性能，延长了其循环使用寿命。

Plates: formulated with a unique active substance improves the utilization of active substances, and further improves the battery's high current discharge performance and charge acceptance capacity. The design of abundant negative active material ensures that the oxygen produced by the positive electrode in the later stage of charging can be fully diffused to the negative electrode, where the oxygen reacts with the spongy lead of the negative electrode and recombines to water. This prevents the release of hydrogen from the negative electrode during the charging process, and achieves the internal oxygen recombination cycle, giving the valve-controlled battery excellent high-rate discharge performance and extending its cycle life.

■ ■ ■ **PE 隔板**：低电阻微孔聚乙烯袋式隔板，体质轻，电阻小，吸酸度高，硫酸溶液中离子迁移能力强，最大程度的提高了电池电压和启动电流，使电流容量始终保持着良好的稳定状态。

PE separator: low resistance microporous polyethylene bag partitions, small resistance, and high acid absorption, and more active ion migration in sulfuric acid solution. maximums battery voltage and starting current to the greatest extent to keep a good stable battery capacity throughout.

■ ■ ■ **板 栅**：极板板栅采用了特殊合金配方和独特的结构设计及扩网冷成型技术，产品具有良好的耐振动性和耐腐蚀性及高温侵蚀性能。负极采用独特的碳素铅膏配方，正极采用添加4BS晶种，使产品具有启动电流大、回充电性能优越，蓄电池使用寿命长等特点。

Polar plate grid applies special alloy formulation, unique structural design and cold forming technology of expanded network. The product is of good vibration and corrosion resistance, high temperature erosion performance. The negative pole applies unique carbon paste formula while positive pole applies 4BS crystal, making the product features of big starting current, excellent recharging performance, long battery life, etc.

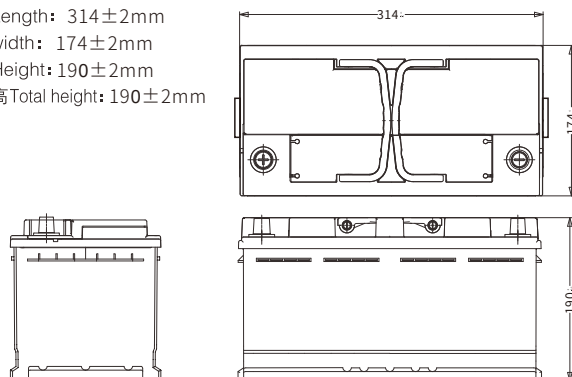
■ ■ ■ **外 壳**：款式新颖的壳体，设计合理的提手，采用高强度聚丙烯树脂 PP、三元乙丙橡胶 EPDM、【2-（2-丁氧基乙氧基）乙脂】等混合注塑成型，具有高密度、高韧性、高强度、避免壳体渗液失水、膨胀变形之优点。

Case: Innovative cases, well-designed handles, created through injection molding using a mixture of high-strength polypropylene resin (PP), Ethylene Propylene Diene Monomer (EPDM), [2-(2-butoxyethoxy) ethyl], have the advantages of high density, high toughness, high strength, while avoiding fluid loss and swelling deformation of the case.

产品(图)
Products

外形尺寸Dimension (mm)

外形尺寸Dimension;
长Length: 314±2mm
宽width: 174±2mm
高Height: 190±2mm
总高Total height: 190±2mm



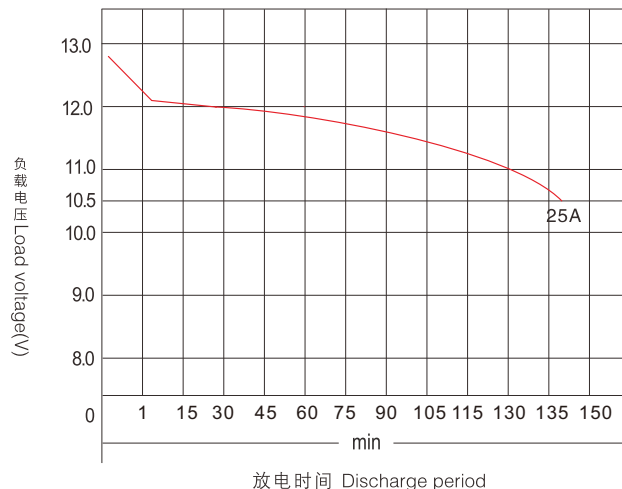
规格表 Specification

额定电压 Voltage	12 V
内化选择程序 Internalization selection program	号/No
湿量 With electrolyte weight	22.5 kg
硫酸比重 Gravity of sulphuric acid	1.28 ± 0.015/cm ³ (25°C)
标准端子 Terminal type	T2
极性 Layout	(0)
固定方式 Fix mode	下固定 Hold down
外壳 Shell	聚丙烯 P.P
顶盖 Cover	聚丙烯 P.P
把手 Handle	聚丙烯 P.P
提手结构 Handle structure	中间单提手Intermediate single hand
充电方式 Charge method	采用恒压限流浮充电 Floating charge under constant voltage and limited current
充电电压 Charge voltage	限电压最高值为14.85V Maximum charge voltage:14.85V
充电电流 Charge current	限电流最高值为15 Maximum charge current:15A
充电时间 Charge period	连续充电24小时 Charge 24 hours continuously

电池特性

储备容量(RC)	140
起动电流CCA(-18°C)	800A

放电特性Discharge Characteristics(25°C, 70° F)

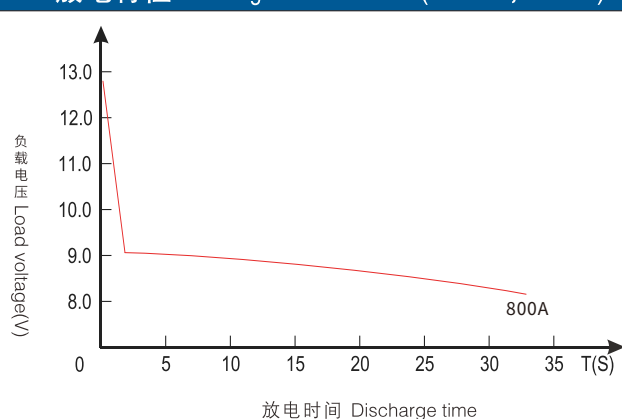


标准端子Standard terminal(mm)

极 性 Layout

端子类型 Terminal type	D		
	正极 R	负极 L	
T2	19.5 ^{+0.3} _{-0.3}	17.9 ^{+0.3} _{-0.3}	

放电特性 Discharge Characteristics(-18°C, 0° F)



蓄電池安全使用須知：

Safety instructions for the use of battery:

電池用途 Usage 	免維護鉛酸蓄電池能為車輛的起動提供所需的大電流放電，亦可在車輛怠速、熄火後保持車載電子系統及車內附屬用電設備的供電，也可用於太陽能電源、牽引動力電源、通訊電源、電子儀器、照明、應急裝置電源或其他直流電源等多個領域。 1、Usage: Maintenance free lead acid battery could supply huge current discharging during the starting of the vehicle and the frequent start–stop in driving, also could supply power for the vehicle electronic system and other auxiliary equipments. This battery could also be used widely in Solar system、traction utility power 、telecom power system、electric instrument、lighting system、emergency lighting system and other alternating current field.
電池安裝 Installation 	1、電池安裝使用前，先將車輛擋位置於P擋(停車擋位)後熄火、關閉電源。2、先用鋼絲刷清理接線卡及電池兩極接線端子，刷至光澤。3、先將正極線與電池正極端子連接，然後再將負極線與電池負極端子連接，接線後的正負端子應塗以凡士林，以免氧化腐蝕。4、安裝前注意清潔電池架存在的異物，根據電池架與電池上固定或下固定的方式，將蓄電池置於托架卡壓固定。5、蓄電池內電解液為稀硫酸有強烈的腐蝕性，在蓄電池使用、充電或放置時可產生易爆氫氧混合氣體，須避免火花、火焰的接近，以免引起爆炸，因此在蓄電池充電或在蓄電池附近工作時，要戴上護目鏡、面罩等防護物。 1.Before install the battery, first puts vehicles at P gear(parking gear), then flameout, turn off the power. 2.Clean the clips of cable and terminals with steel brush to brunish.3.Connect the positive wire with positive terminal first, then negative terminal with negative wire, then should b coat with Vaseline to avoid oxidation corrosion.4.Before installation Should clean the battery holder, According to the fixed way of battery hold and hold–up and hold–down, fasten it.5.the electrolyte of battery is Dilute sulphuric acid, is Strong corrosive,can produce hydrogen and explosive mixed gas when using, charging or storage,should keep away flames,sparks to avoid flash explosion, so when charging or working near the battery, be protected with shield such as goggles and masks
電池維護 Maintenance 	免維護鉛酸蓄電池具備優越的深度放電、充電接受能力，在正常的使用過程中其循環耐久能力是普通電池的3~4倍，為保證電池的良好使用，注意如下幾點是相當重要的：1、時常檢查蓄電池接線端卡，接觸是否良好，出現鬆動或氧化腐蝕及時緊固清理。電池在充電過程中會產生可燃氣體通過電池上側氣孔排出，為避免氣孔堵塞防止電池形成內壓引起爆炸，且應注意始終保持氣孔通暢。電池在清理維護過程中，盡量避免電池傾斜或倒置，以防電池電液泄漏。2、車輛發動機因電池故障難以起動時，須經專業技術人員進行檢測排除故障或更換電池。更換電池時，注意區分正、負極端子位置，先拆卸負極端子連接線，再拆卸正極端子連接線，避免正負線端因短路引火火花放電。3、車輛停止使用時，注意關閉電源開關，關閉車內附屬用電設備及室內燈光開關，以充分保持電池的儲備電量。車輛關閉電源開關時，車載電子系統仍處於工作狀態，會持續微量消耗電池容量，停車時長超過15天應將電池取下或斷開負極端線;停用的蓄電池採用浮充電方式每隔三個月補充充電一次。 Maintenance: maintenance–free lead acid battery has superior performance of deeply discharging and charging acceptance, with its cycle durability three to four times common battery during normal use. the normal use of its cycle durability is 3 to 4 times the normal battery. Please pay attention to the following important points in order to ensure the good use of the battery: (1). Frequently check the connection of battery terminal. If there is loose or oxidized corrosion, timely fasten and clean are needed. During the charging process, the battery will generate combustible gas through the stomata on the upper side of the battery. To prevent the stomata from being blocked, the battery should be prevented from forming internal pressure to cause explosion, and your care should be taken to keep the stomata open. During cleaning and maintenance process, you should try to avoid the tilt or inversion of battery, to prevent leakage of battery electrolyte. (2). When the vehicle engine is difficult to start due to battery failure, you should ask professional and technical personnel to detect, troubleshoot or replace the battery. When replacing the battery, you should pay attention to distinguish the positive and negative terminal positions. You should remove the negative terminal connection cable firstly and then remove the positive terminal connection cable to avoid spark discharge caused by short circuit at the positive and negative terminals. (3). When you stop using the vehicle, you should turn off the power switch, turn off the attached electrical equipments inside car and indoor light switches, to fully maintain the battery reserve power. After turning off the power switch, the car electronic system is still in working condition and will continue to consume battery capacity. After parking longer than 15 days, you should remove or disconnect the negative terminal cable. Unused battery need being charged by float–ing charge mode once after every three months.
電池充電 Battery capacity 	1、採用恰當的浮充充電電流、電壓值是影響電池循環壽命的關鍵因素，浮充充電是恒電壓、限電流的充電方式，以14.1V~14.8V的恒電壓設定值、最大電流不超過電池容量的25%進行補充充電。2、車輛停用每隔三個月或電池電壓降至12.5V時，須採用浮充充電的方式進行補充，隨電池充電時間的漸進，充電電流逐步減小，當電流降至0.5A，且3小時穩定不變時為充電飽和終止狀態。3、免維護鉛酸蓄電池在實際使用過程中，一定要根據環境溫度選擇合適的浮充電壓，浮充電壓過高，除引起水損失加速外，更加速了正極板柵的腐蝕，因電池設計壽命賴於正極板柵合金的腐蝕速率，正極板柵被腐蝕的越多，電池的剩餘容量就越少，電池壽命就越短。4、當電池停用超6個月未能及時補充充電或電池電壓降至10.5V時，屬電池深度放電，將導致電池板極不可逆硫酸鹽化，電池內阻增大，容量難以恢復原正常容量值，甚至成為蓄電池壽命終止的原因。 (1). The use of fitable floating charge current and proper voltage is the key factor of affecting the battery cycle life. Floating charge is a charging mode using constant voltage and limited current, boost charging under constant voltage setting(14.1V ~ 14.8V) and the maximum current–less than 25% of the battery capacity.(2). Floating charge needed to be used for supplement every three months of un–used vehicles or when the battery voltage drops to 12.5V. The charge current gradually reduces with the processing battery charging. When the current drops to 0.5A and stays for 3 hours, it enters saturation termination state.(3). During the actual operation process of maintenance–free lead acid battery, it is necessary to choose the appropriate floating voltage according to the ambient temperature. If floating charge voltage is too high, in addition to the acceleration of water loss, the corrosion of the positive grid will also be accelerated. Due to battery’s designed life depends on the corrosion rate of the positive grid alloy, the more corrosion of the positive grid, the less remaining capacity of the battery, then the shorter of the battery life.(4). When the battery fails to be recharged after not being used for over 6 months or battery voltage drops to 10.5V, the battery undergoes a deep discharge, which will lead to irreversible battery plate sulfate, increasing of the battery internal resistances, unable recover of the normal capacity, and even the reasons for the battery life ends.
電池存放 Storage 	車輛停止使用時，注意關閉電源開關，關閉車內附屬用電設備及室內燈光開關，以充分保持電池的儲備電量。車輛關閉電源開關時，車載電子系統仍處於工作狀態，會持續微量消耗電池容量，停車時長超過15天應將電池取下或斷開負極端線;停用的蓄電池應放置在清潔、乾燥、避光、通風的地方，環境溫度應保持在5~30℃之間，在此條件下，每隔三個月採用浮充電方式補充充電一次。 When the vehicle is stopped, please turn off the power and all the accessory equipments and the lights to maintain the battery storage power fully. vehicle electric systems are working when the power is off that will consume slight battery capacity。when stopping time is more than 15 days, pls take out the battery or break the negative terminal。store the battery in a clean, ventilated dry place with temperature between 5–30℃, in addition, pls charge the battery with float charge every three months.