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PKNERGY



DRONE BATTERY BROCHURE

OVER 20 YEARS EXPERIENCE IN CUSTOMIZATION OF LITHIUM BATTERIES
LEADING THE NEW TENDENCY OF THE INDUSTRY

RELIABLE · ROBUST · POWERFUL



RELIABLE POWER
FOR DEMANDING FLIGHTS



COMPANY PROFILE

01



DRONES BATTERY SERIES

03



FACTORY OVERVIEW

05



SURVEYING & MAPPING BATTERY

07



FPV RACING & FREESTYLE BATTERY

09



CONSUMER CAMERA DRONE BATTERY

11



EDUCATION & TRAINING BATTERY

13



INDUSTRIAL INSPECTION UAV BATTERY

15



AGRICULTURAL SPRAYING UAV BATTERY

17



20+

Years industry experience



30+

Precision-Focused R&D Experts



10000+

Worldwide customers



150+

Countries Served

COMPANY PROFILE

SHENZHEN PKENERGY ENERGY CO., LTD. is a leading provider of custom lithium battery solutions. With over 20 years of expertise in lithium battery customization, PKENERGY delivers diversified, high-quality power solutions tailored to clients' unique project needs.

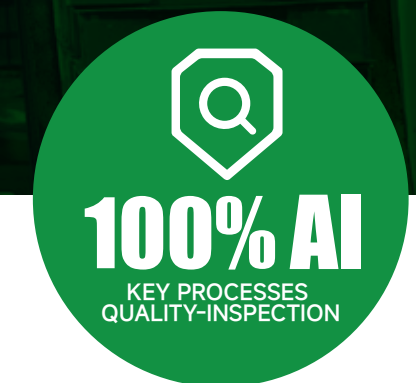
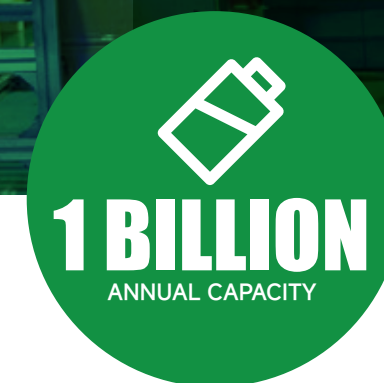
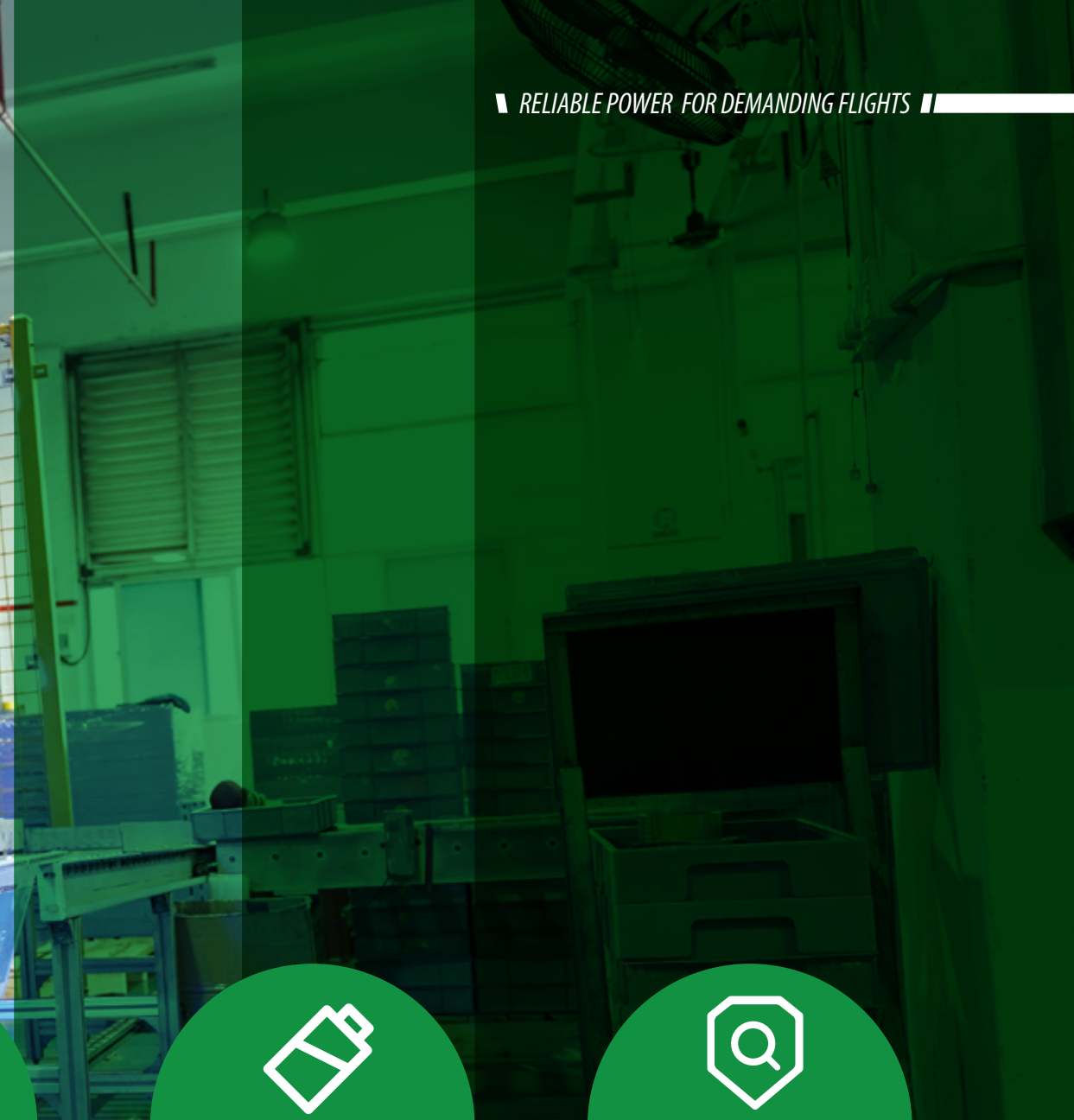
As a high-tech enterprise in the green energy industry, PKENERGY serves more than 100 countries worldwide, with local offices in Toronto, Canada and Los Angeles, USA. We hold over 12 lithium battery technology patents and authoritative certifications including UN38.3, CE, EN62619, and IEC62040, ensuring reliable quality and continuous technological innovation.

Up to now, PKENERGY has empowered thousands of intelligent devices with customized battery solutions and built long-term cooperative relationships with 10,000+ global clients. We strive for win-win development and keep promoting safer, more efficient and sustainable power supply solutions.



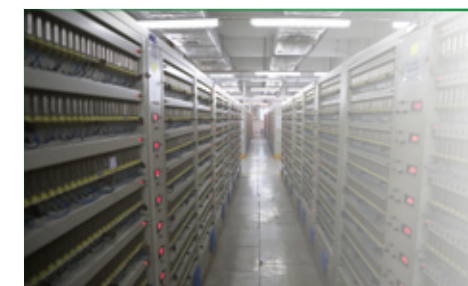
CERTIFICATIONS

We hold international certifications like **CE**, **UN38.3**, proving our batteries meet global standards for safety, performance, and environmental compliance, providing reliable solutions for our customers.



FACTORY OVERVIEW

Our manufacturing base covers a plant area of 28,000 square meters, equipped with more than 20 fully-automatic production lines. We have over 400 professional staff members and an annual production capacity of over 1 billion batteries. Key production processes adopt 100% AI-powered quality inspection to guarantee stable product quality.



SS-HED | SEMI-SOLID-STATE HIGH ENERGY DENSITY UAV BATTERY



HRV | HIGH RATE POUCH UAV BATTERY



CYL | CYLINDRICAL UAV BATTERY



+ UAV BATTERY SOLUTIONS SUPPLIER WITH 20 YEARS OF EXPERIENCE +

HV-HRP | HIGH-VOLTAGE HIGH-RATE POUCH UAV BATTERY



UHR-RACING | ULTRA-HIGH-RATE RACING DRONE BATTERY



RECOMMENDED BATTERY SOLUTIONS FOR SURVEYING & MAPPING

- LONG ENDURANCE
- HIGH ENERGY DENSITY
- STABLE OUTPUT
- OUTDOOR RELIABILITY
- LIGHTWEIGHT



SEMI-SOLID-STATE BATTERY
High Energy Density Solution



HIGH ENERGY DENSITY



LONG ENDURANCE



Long-Range
Survey & Mapping



HIGH-VOLTAGE HIGH-RATE
POUCH BATTERY
High Voltage Power Solution



HIGH VOLTAGE



HIGH POWER OUTPUT



High-Load
Mapping UAVs



CYLINDRICAL UAV BATTERY
Balanced Endurance Solution



STRUCTURAL STABILITY



ENERGY EFFICIENCY



Routine Aerial
Survey Missions



HIGH-RATE LiPo UAV BATTERY
High Discharge Solution



HIGH DISCHARGE RATE



FAST POWER RESPONSE



Multi-Rotor
Mapping UAVs



SURVEYING & MAPPING BATTERY

LONG FLIGHT DURATION & STABLE VOLTAGE OUTPUT FOR MAPPING AND SURVEY MISSIONS. RELIABLE POWER TO GUARANTEE CONSISTENT DATA COLLECTION DURING LONG-DISTANCE AERIAL SURVEY.

Cell Model	Battery Type	Voltage(V)	Capacity (mAh)	Operating Temperature	Continuous Discharge Rate	Weight(g)	Dimensions (mm)
10975175GSH2	Semi-Solid-State	14.8 / 22.2 / 29.6 / 44.4	36000	-20~55℃	2C	1150/1900/2500 /3800	45.5~160 *78*195
9587191GSH2	Semi-Solid-State	14.8 / 22.2 / 29.6 / 44.4 / 51.8	40000	-20~55℃	2C	1400/2100/2800 /4250/5000	39.5~170 *90*210
606080	High-Rate LiPo	14.8 / 22.2	2510	-20~55℃	60C	120/182	25~37 *61*84
6543126	High-Rate LiPo	14.8 / 22.2	3000	-20~55℃	60C	145/218	27~40 *44*129
706395	High-Rate LiPo	14.8 / 22.2	3000	-20~55℃	45C	145/218	29.5~43.5 *64.5*100
INR21700	Cylindrical Li-ion	21.6 / 43.2 / 50.4	5000	-20~60℃	9C	600/1000/1150	75*48*75 75*90*68 75*45*165
6874170HP	HV-HR LiPo	15.4 / 23.1 / 30.8 / 46.2	12000	0~45℃	6C	850/1300/1700 /2550	29~100 *77*195
7270140SP	HV-HR LiPo	15.2 / 22.8 / 30.4 / 45.6	8000	0~45℃	12C	700/1050/1400 /2100	30.5~90 *73*160
9074170HP	HV-HR LiPo	23.1 / 30.8 / 46.2	16000	0~45℃	6C	1600/2150/3250	56~120 *77*192



FPV RACING & FREESTYLE BATTERY

ULTRA-HIGH DISCHARGE RATE POUCH BATTERIES, DELIVERS INSTANT BURST POWER FOR SHARP TURNS AND FAST ACCELERATION IN FPV FLIGHT.

RECOMMENDED BATTERY SOLUTIONS FOR FPV RACING & FREESTYLE

- HIGH DISCHARGE RATE
- LOW INTERNAL RESISTANCE
- STABLE POWER DELIVERY
- STABLE POWER DELIVERY
- LIGHTWEIGHT DESIGN



HIGH-RATE POUCH BATTERY
High-Rate Performance Solution

- HIGH RATE DISCHARGE
- LIGHTWEIGHT ENERGY
- FLEXIBLE CAPACITY



Freestyle FPV Drone



CYLINDRICAL UAV BATTERY
Long-Cycle Durable Solution

- LONG CYCLE LIFE
- WIDE TEMPERATURE RANGE
- ROBUST STRUCTURE



Cinewhoop



Ultra-High-rate Racing Drone Battery
Extreme Racing Power Solution

- 90C ULTRA-HIGH RATE
- LOW VOLTAGE SAG
- LINEAR POWER DELIVERY



FPV Racing

Cell Model	Battery Type	Voltage(V)	Capacity (mAh)	Operating Temperature	Continuous Discharge Rate	Weight(g)	Dimensions (mm)
1043126	High-Rate LiPo	14.8 / 22.2	5000	-20~55°C	30C	242/363	41.5-61.5 *44.5*131
116395	High-Rate LiPo	14.8 / 22.2	5000	-20~55°C	45C	242/363	45.5-67.5 *64.5*100
406080	High-Rate LiPo	14.8 / 22.2	1500	-20~55°C	40C	75/109	17-25 *61*84
606080	High-Rate LiPo	14.8 / 22.2	2510	-20~55°C	60C	120/182	25-37 *61*84
6543126	High-Rate LiPo	14.8 / 22.2	3000	-20~55°C	60C	145/218	27-40 *44*129
703880	High-Rate LiPo	14.8 / 22.2	2000	-20~55°C	40C	105/158	29.5-43.5 *39.5*85
706395	High-Rate LiPo	14.8 / 22.2	3000	-20~55°C	45C	145/218	29.5-43.5 *64.5*100
INR21700	Cylindrical Li-ion	21.6	5000	-20~60°C	9C	600	75*48*75
6865155	UHR-Racing	14.8 / 22.2	5000	-20~55°C	90C	242/363	28.5-42 *66*158
8365155	UHR-Racing	14.8 / 22.2	8000	-20~55°C	90C	388/580	34.5-51 *66*158

CONSUMER CAMERA DRONE BATTERY

BALANCED ENERGY DENSITY & SAFETY PERFORMANCE,
STABLE POWER SUPPLY FOR AERIAL PHOTOGRAPHY,
SMOOTH VIDEO RECORDING.

RECOMMENDED BATTERY SOLUTIONS FOR CONSUMER CAMERA DRONE

- HIGH CONTINUOUS DISCHARGE
- LOW INTERNAL RESISTANCE
- STABLE POWER OUTPUT
- MINIMAL VOLTAGE SAG
- RELIABLE PULSE POWER

HIGH-RATE POUCH BATTERY

High Burst Power Solution



HIGH RATE DISCHARGE



STRONG PEAK POWER



LOW VOLTAGE SAG



Portable Consume Camera Drone

CYLINDRICAL UAV BATTERY

Long-Lasting Power Solution



STEADY DISCHARGE



CONSISTENT VOLTAGE



STABLE PULSE POWER



Long-Hour Consumer Camera Drone

Cell Model	Battery Type	Voltage(V)	Capacity (mAh)	Operating Temperature	Continuous Discharge Rate	Weight(g)	Dimensions (mm)
406080	High-Rate LiPo	14.8 / 22.2	1500	-20~55°C	40C	75/109	17-25 *61*84
606080	High-Rate LiPo	14.8 / 22.2	2510	-20~55°C	60C	120/182	25-37 *61*84
6543126	High-Rate LiPo	14.8 / 22.2	3000	-20~55°C	60C	145/218	27-40 *44*129
703880	High-Rate LiPo	14.8 / 22.2	2000	-20~55°C	40C	105/158	29.5-43.5 *61*84
706395	High-Rate LiPo	14.8 / 22.2	3000	-20~55°C	45C	145/218	29.5-43.5 *64.5*100
INR21700	Cylindrical Li-ion	21.6	5000	-20~55°C	9C	600	75*48*75

- RECOMMENDED BATTERY SOLUTIONS
FOR EDUCATION & TRAINING
- HIGH CONTINUOUS DISCHARGE

LOW INTERNAL RESISTANCE

STABLE POWER OUTPUT

MINIMAL VOLTAGE SAG

CONSISTENT CYCLE PERFORMANCE

HIGH-RATE POUCH BATTERY

High Burst Power Solution



Education & Training
Drone



EDUCATION & TRAINING
BATTERY

SAFE, STABLE AND COST-EFFECTIVE BATTERY SOLUTIONS FOR STUDENT TRAINING AND EDUCATIONAL DRONE PROJECTS.

Cell Model	Battery Type	Voltage(V)	Capacity (mAh)	Operating Temperature	Continuous Discharge Rate	Weight(g)	Dimensions (mm)
406080	High-Rate LiPo	14.8 / 22.2	1500	-20~55°C	40C	75/109	17-25 *61*84
606080	High-Rate LiPo	14.8 / 22.2	2510	-20~55°C	60C	120/182	25-37 *61*84
6543126	High-Rate LiPo	14.8 / 22.2	3000	-20~55°C	60C	145/218	27-40 *44*129
703880	High-Rate LiPo	14.8 / 22.2	2000	-20~55°C	40C	105/158	29.5-43.5 *61*84
706395	High-Rate LiPo	14.8 / 22.2	3000	-20~55°C	45C	145/218	29.5-43.5 *64.5*100

RECOMMENDED BATTERY SOLUTIONS FOR INDUSTRIAL INSPECTION UAV

- STEADY POWER OUTPUT
- LONG CRUISE DURATION
- WIDE TEMPERATURE RELIABILITY
- HIGH ENERGY DENSITY
- PULSE LOAD TOLERANCE



SEMI-SOLID-STATE BATTERY
Long-range Survey Battery Solution



HIGH ENERGY DENSITY



STEADY CRUISE OUTPUT



VTOL UAV for power line



HIGH-RATE POUCH BATTERY
Heavy-load High-power Battery Solution



HIGH PEAK POWER



PULSE LOAD ADAPTABILITY



Heavy-load multi-rotor with thermal



CYLINDRICAL UAV BATTERY
High-frequency General Battery Solution



LONG CYCLE LIFE



STABLE CONSISTENT OUTPUT



Multi-rotor for daily routine inspection



HIGH-VOLTAGE HIGH-RATE POUCH BATTERY
Extreme Environment Battery Solution



HIGH VOLTAGE PLATFORM



WIDE TEMPERATURE RELIABILITY



Special UAV for cold-region inspection



INDUSTRIAL INSPECTION UAV BATTERY

WIDE TEMPERATURE RANGE & DEPENDABLE PERFORMANCE FOR POWER LINE, PIPELINE AND INFRASTRUCTURE INSPECTION IN COMPLEX OUTDOOR ENVIRONMENTS.

Cell Model	Battery Type	Voltage(V)	Capacity (mAh)	Operating Temperature	Continuous Discharge Rate	Weight(g)	Dimensions (mm)
10975175GSH2	Semi-Solid-State	14.8 / 22.2 / 29.6 / 44.4	36000	-20~55℃	2C	1150/1900/2500 /3800	45.5-160 *78*195
93121220GSH	Semi-Solid-State	14.8 / 22.2 / 29.6 / 44.4	60000	-20~55℃	2C	3300	39-125*125*240
9587191GSH2	Semi-Solid-State	14.8 / 22.2 / 29.6 / 44.4 / 51.8	40000	-20~55℃	2C	1400/2100/2800 /4250/5000	39.5-170 *90*210
406080	High-Rate LiPo	14.8 / 22.2	1500	-20~55℃	40C	75/109	17-25 *61*84
606080	High-Rate LiPo	14.8 / 22.2	2510	-20~55℃	60C	120/182	25-37 *61*84
6543126	High-Rate LiPo	14.8 / 22.2	3000	-20~55℃	60C	145/218	27-40 *44*129
703880	High-Rate LiPo	14.8 / 22.2	2000	-20~55℃	40C	105/158	29.5-43.5 *61*84
706395	High-Rate LiPo	14.8 / 22.2	3000	-20~55℃	45C	145/218	29.5-43.5 *64.5*100
INR21700	Cylindrical Li-ion	21.6 / 43.2 / 50.4	5000	-20~60℃	9C	600	75*48*75 75*90*68 75*45*165
6874170HP	HV-HR LiPo	15.4 / 23.1 / 30.8 / 46.2	12000	0~45℃	6C	850/1300/1700 /2550	29-100 *77*195
7270140SP	HV-HR LiPo	15.2 / 22.8 / 30.4 / 45.6	8000	0~45℃	12C	700/1050/1400 /2100	30.5-90 *73*160
9074170HP	HV-HR LiPo	15.4 / 23.1 / 30.8 / 46.2 / 53.9	16000	0~45℃	6C	1600/2150/3250	56-120 *77*192

RECOMMENDED BATTERY SOLUTIONS FOR AGRICULTURAL SPRAYING UAV

- HIGH CONTINUOUS DISCHARGE
- LOW INTERNAL RESISTANCE
- STABLE POWER OUTPUT
- MINIMAL VOLTAGE SAG
- RELIABLE PULSE POWER

SEMI-SOLID-STATE BATTERY
Long-Endurance Agricultural Battery Solution



HIGH ENERGY DENSITY



LONG CRUISE LIFE



STABLE LOW-RATE OUTPUT



Agricultural Mapping UAV

HIGH-VOLTAGE HIGH-RATE POUCH BATTERY
Heavy-Payload Agricultural Spraying Battery Solution



HIGH RATE DISCHARGE



STRONG PULSE POWER



LOW VOLTAGE SAG



Agricultural Spraying Uav



AGRICULTURAL SPRAYING UAV BATTERY

HIGH CAPACITY AND DURABLE POWER SUPPORT, CONTINUOUS OUTPUT FOR HEAVY-LOAD CROP SPRAYING WORK IN FARMLAND.

Cell Model	Battery Type	Voltage(V)	Capacity (mAh)	Operating Temperature	Continuous Discharge Rate	Weight(g)	Dimensions (mm)
10975175GSH2	Semi-Solid-State	29.6	36000	-20~55℃	2C	2500	89.5*78*195
93121220GSH	Semi-Solid-State	14.8 / 22.2 / 29.6 / 44.4	60000	-20~55℃	2C	3300	39-125*125*240
9587191GSH2	Semi-Solid-State	29.6	40000	-20~55℃	2C	2800	77.5*90*210
6874170HP	HV-HR LiPo	15.4 / 23.1 / 30.8 / 46.2	12000	0~45℃	6C	850/1300/1700 /2550	29-100 *77*195
9074170HP	HV-HR LiPo	15.4 / 23.1 / 30.8 / 46.2 / 53.9	16000	0~45℃	6C	1600/2150/3250	56-120 *77*192



PKENERGY[®]

DRONE BATTERY SERIES

The PKENERGY Drone Battery Series covers the full spectrum of application scenarios, from high-discharge-rate racing and industrial-grade long-endurance flights to extreme-environment operations, offering one-stop solutions spanning cell selection, custom BMS design, and structural integration. With stable global production capacity, rigorous quality control standards, and responsive service, we look forward to becoming the trusted power partner for your drone business.

