



A **lightweight battery** purposely designed for **smart city** applications and enabling **fast charging, high safety and long lifecycle**. Conceived to resist to industrial and **outdoor** environments. Applicable with both VizioSense **Single or Dual camera** sensors.

Available in silver gray and black to be as **discrete** as possible in the city.

Key features

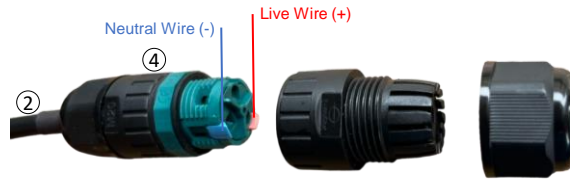
- ✓ 2000 cycles long life (5+ years)
- ✓ 3.5 to 4 hours fast charging
- ✓ Industrial-grade design
- ✓ Built-in intelligent BMS for performance optimization and safety
- ✓ Robust metal casing
- ✓ Integrated charger
- ✓ Plug-and-play installation
- ✓ Easy monitoring and maintenance via a Bluetooth App

SPECIFICATION

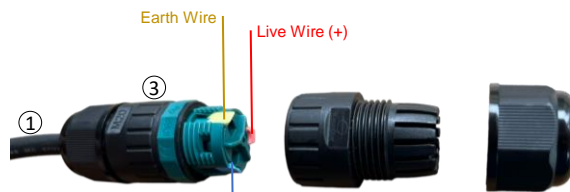
Performance	
Technology	LiFePO4 (lithium iron phosphate)
Support Runtime of Camera Sensor	Approx.18 hours for the dual camera sensor; Approx. 21 hours for the single camera sensor
Cycle Life	2000 charging/discharging cycles ⁽¹⁾
Charging Time	3.5 to 4 hours
BMS	Built-in intelligent BMS with Bluetooth
Use Environment	Indoor and outdoor
Electronics	
Typical Capacity	18.0Ah
Nominal Voltage	DC12.8V
Discharge Cut-off Voltage	DC8.8V
Charging Voltage	DC14.6V
External Charging Voltage	AC100V to 240V, 50/60Hz, 1.5A
Maximum Charge Current	0.5C ₅ A
Maximum Discharge Current	0.5C ₅ A
Interfaces	
Charge Connector	M20-3PIN IP68 connector, suitable for cable diameters ranging from 5 to 9mm
Discharge Connector	M20-2PIN IP68 connector, suitable for cable diameters ranging from 5 to 9mm
Charge Cable	H05RN-F, 0.75mm ² , 1m
Discharge Cable	UL2464, 1.31mm ² , 1m
Mechanics	
Dimensions	517mm(L)x86.2mm(W)x86.2mm(H)
Weight	Approx. 4250g
Housing Material	Aluminium
Color	Silver gray/Black
Ingress Protection	IP68
Installation	Wall mounting, Pole mounting
General	
Model	IFR32700-4S3P
Bluetooth Monitoring App	Xiaoxiang Electric (IOS/Android)
Operating Conditions	-20°C to 60°C, less than 90% RH
Recommended Storage Temperature Range	12 months: -20 to 25°C; 3 months: -20 to 45°C; 1 month: -20 to 55°C
Recommended Storage Humidity Range	60±15% RH
Optional Accessories	Hose clamps for pole mounting
Services	
Warranty	1 year, extendable on demand

⁽¹⁾ Carry out 2000 charging/discharging cycle in the below condition:
 Charge: 1.0C₅A constant current to DC14.6V, DC14.6V constant voltage to 0.05C₅A;
 Discharge: 1.0C₅A to DC8.0V;
 Rest time between charge/discharge: 30min;
 Temperature: 25±5°C

INTERFACES



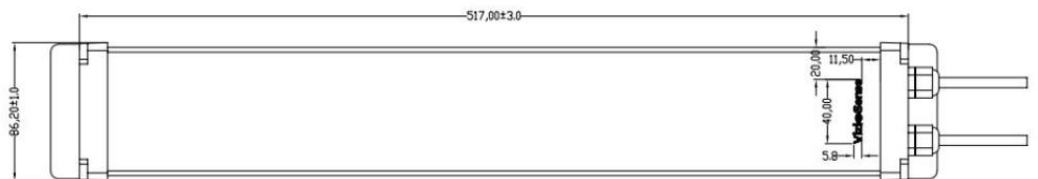
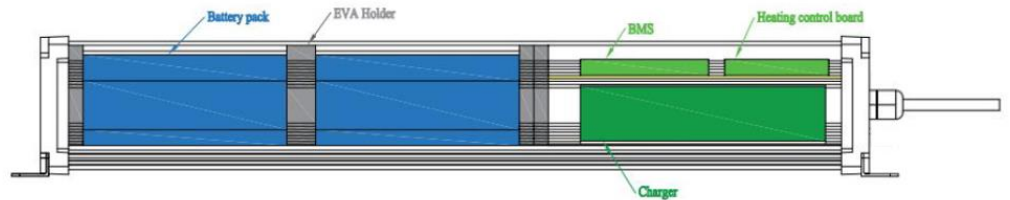
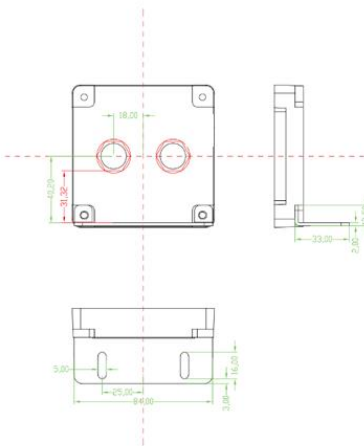
M20-2PIN IP68 Discharge Connector (Output)



M20-3PIN IP68 Charge Connector (Input)

- ① Charge Cable (Input)
- ② Discharge Cable (Output)
- ③ Charge Connector (Input)
- ④ Discharge Connector (Output)
- ⑤ Mounting Plates

DIMENSIONS



Note: Wall installation requires 4x M5 screws.

STORAGE AND TRANSPORTATION

Storage:

- Store the battery in a cool, dry, and well-ventilated area, away from fire and high temperatures, ideally, maintaining conditions between 0°C to 25°C and 60±15% RH.
- The battery must be stored after being charged and should be recharged at least **once every 2 months**. It is recommended to maintain a charge level around 60% and inspect the battery monthly.

Transportation:

- Keep the battery separated from other cargoes.
- Keep the battery upright.
- Minimize exposure to excessive physical shock or vibration.
- Ensure transportation temperatures do not exceed 65°C.

USE ATTENTIONS

Handling:

- Ensure correct terminal connections when installing the battery.
- Avoid short-circuiting the battery.
- Do not disassemble or deform the battery.
- Do not mix the battery with other batteries of different makes, types, or models.

Charge:

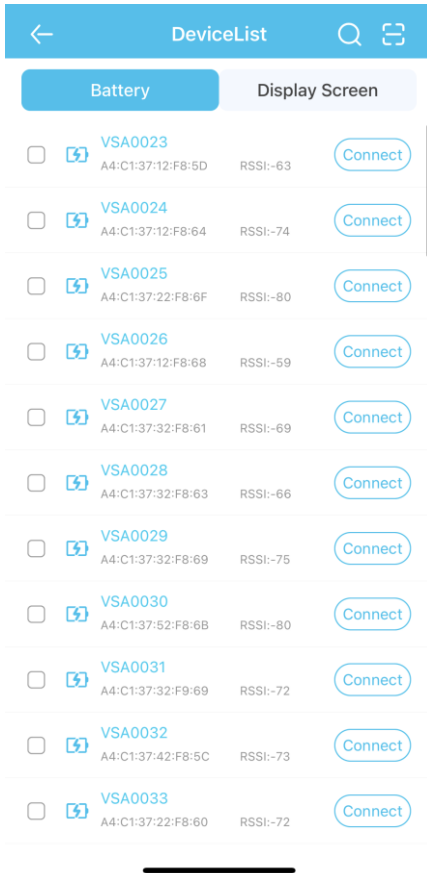
- Charge the battery within the ambient temperature range of -20°C to 60°C.
- Do not leave the battery in the charger for over 24 hours.
- Uses the constant electric current and the constant voltage way charge; avoid reverse charging as it can damage the battery if the positive and negative terminals are connected incorrectly.

Discharge:

- Discharge the battery within the ambient temperature range of -20°C to 60°C.
- The battery features over-discharge protection. Short-term over-discharge followed by immediate charging will not affect its usability. However, prolonged over-discharge exceeding **3 weeks** can lead to performance degradation and potential damage to the battery.
- If the battery is not used for an extended period, it may automatically discharge due to its inherent characteristics. As mentioned in the Storage section, to prevent over-discharge, maintain the battery at a certain charge level such as 60%.

BLUETOOTH MONITORING APP

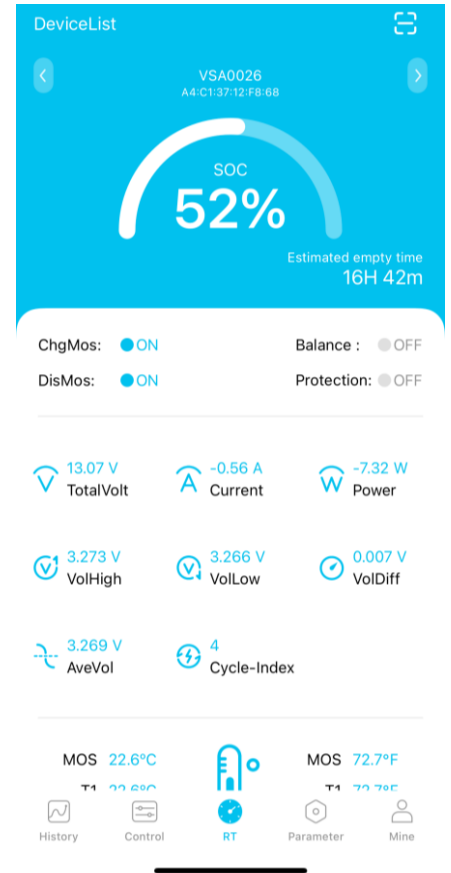
VizioSense's battery can be used with the Xiaoxiang Electric App to view real-time battery status during installation and maintenance.



Battery List



Charging Interface



Discharge Interface

Note: Charging current display: x.xx A; discharge current display: -x.xx A.

Contact us

If you have any questions, please email us at:
contact@vizioSense.com