

Firefighting/Heavy Duty tethered drone



System model:T150X

1. Solution Advantages

1. Long flight hover

The ground continuously provides power to the drone, allowing it to hover in the air 24 hours a day

2. Multiple ways to power supply

380V power supply, generator power supply

3. High security

Mounted under the drone, plug and play, supports hot and cold start, and seamlessly switches the fuselage battery when power is off

2. Main features

1. The system only retains the input switch, high voltage switch and cable retracting knob, easy to operate and can be deployed quickly. Users only need to operate the drone, which can greatly improve work efficiency and safety.

2. The product is integrated, has high power density, is miniaturized, lightweight, modularization and intelligently designed, and is easy to carry.

3. The onboard power supply adopts a voltage-stabilizing circuit solution, with wide-range input, constant voltage-stabilizing output, and continuous and stable power supply (the backup battery is only used for safe emergency landing, and can be configured with sufficient safe landing capacity), breaking the flight time limit.

4. The power supply in the base station adopts an isolated circuit design to ensure the safety of high-voltage power transmission.

3. System Configuration

1. 40kg net load drone set

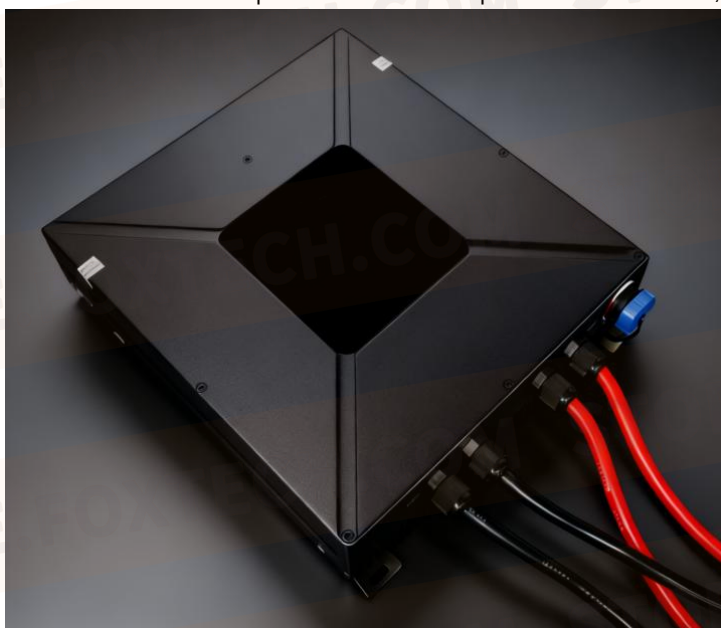
2. 15kw Air power **IP65 waterproof**

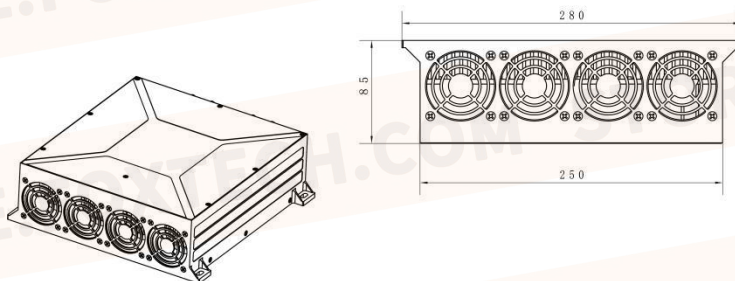
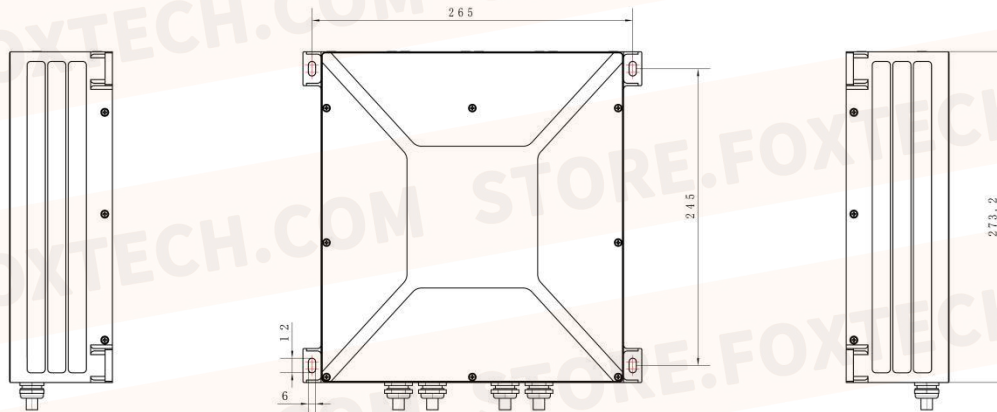
3. Tethered UAV System Base Station, together with Transportation box

4. Specifications

Tethered system

| | |
|-------------------------------------|---|
| Onboard power supply size | 27.5x24.8x8.4cm |
| Weight of onboard power supply | 6.2kg |
| Rated output power | 15KW |
| Rated output voltage | 14S stable(or as request) |
| efficiency | 96% |
| Air power Bio-Battery design | During the flight of the drone, if the ground power supply is abnormally interrupted, the drone can fly and land normally |
| Power off protection function | Output overvoltage protection |
| Output overvoltage protection | 110% rated voltage self-recoverable |
| Output overcurrent protection | 260A self-recoverable |
| Over temperature protection | 100°C |
| Output reverse polarity protection | Terminal foolproof |
| Output short circuit protection | Yes, self-recovery |





Dimensions

68.6x44.8x49.2cm

Power supply

AC380V Power supply.

Continuous flight time is not less than 24hrs; 1000V DC; 30KW

Height

Max.220m

Automatic pay-off and take-up system

Electric-Optical option

Automatic cable reeling and unreeling function

Tethered Station

- Power on, one-button start, automatic voltage compensation(*patent)

- The internal menu can display voltage, current, cable length and temperature.(*Patented, error less than 5%)

Highlights

- With over-current, over-voltage, short-circuit and over-temperature protection

- With observation window, can be manually closed cable, reeling in without power supply
 - Protection level: IP43
 - Turbocharged ventilation and cooling
- 55kgs tethered base station

weight

