FP800
Agricultural Drone









FP800 Agricultural Drone*1 Remote Control*1 12kW Charger*1 34Ah Battery*2

Specification	Parameter
Body Frame	
Symmetrical Motor Wheelbase	2640mm
Power Motor	
Model	X75
Power	5000W (Single motor)
Maximum Thrust	Approx. 75kg (Single motor)
Number of Motors	4
Power ESC	
Operating Voltage	68.4V (18S LiPo)
Rated Operating Current	100A
Rated Power	5000W
Foldable Propeller	
Diameter	63inch, 1608mm
Spraying System	
Spraying Tank	
Maximum Capacity	80L
Pump	
Pump Type	Metering peristaltic pump
Maximum Flow Rate	40L/min (2 pumps, 20L/min per pump)
Centrifugal Nozzle	
Protection Level	IP67
Maximum Atomization Capacity	40L/min (4 nozzles, 10L/min per nozzle)
Spray Range	6-10m
Atomization Particle Size	30μm-500μm
Spreading System SP-7 (Optional)	
Tank Capacity	120L
Maximum Payload	80kg
Feeding Mode	Auger metering
Seeding Mode	Centrifugal disc
Spread Range	5-10m
Recommended Operating Temperature	0°C-40°C
Cargo Lifting System (Optional)	
Payload Capacity	85kg
Cable Length	15m(Standard Configuration)
Emergency Load Release	Supported
Automatic Landing Hook Release	Supported
Working Temperature	0°C-40°C
Application Scenarios	For agricultural, forestry, livestock, and fishery use only
Radar System	
Millimeter-Wave Radar	
Ranging Accuracy	0.1m
Altitude Holding Range	1-30m
Protection Level	IP67
LiDAR	
Ranging Accuracy	0.1m
Protection Level	IP67
FPV Camera	
FOV	Horizontal 86°, Vertical 52°
Flight Parameter	
Hovering Accuracy (Good GNSS Conditions)	Horizontal ± 1.0m Vertical ± 0.5 m Horizontal ± 10 cm Vertical ± 10 cm (RTK enabled) Vertical ± 0.1m (Radar enabled)

Specification	Parameter
Flight Parameter	
Hover Time*	≥5.5min (full load, with 34Ah battery) ≥15.0min (no-load, with 34Ah battery)
*The hover time is measured near sea level, with wind speed below 3m/s and ambient temperature at 25°C.	
Maximum Flight Speed	13.8m/s
Maximum Operating Speed	10m/s
Horizontal Distance Limit	1000m
Maximum Takeoff Altitude	2000m
Recommended Operating Temperature	0°C-40°C
Flight Control System	
Model	TIA2026
Input Voltage	30-80.0V
Rated Power	20W (Excluding radar, pump and other peripherals)
Interface Types	CANBus, RS485, PWM, USB, etc.
Protection Level	IP67 (after fastening the outer joint)
Operating Temperature	-10°C-45°C
Remote Control	
Model	TC3
Operating Frequency	2400-2476MHz/5725-5829MHz
Effective Control Range (unobstructed, no interference)	Control Link: up to 10km Video Transmission: up to 3km (typical agricultural working environment)
RTK High-Precision Point Marking	Supported
Positioning Accuracy	RTK enabled (fixed solution): horizontal: ±0.1m vertical: ±0.1m
Screen Size	7inch
Battery Capacity	13500mAh※7.4V
Endurance Time	Approx. 10h
GNSS System	
Hovering Accuracy (RMS)	RTK disabled: horizontal ±0.6m; vertical ±0.3m RTK enabled (fixed solution): horizontal ±0.1m; vertical ±0.1m
Orientation Accuracy (RMS)	0.4°
Charger (TC1201P)	
Input Voltage	Three-phase AC: 175~450V Single-phase AC: 90~260V
Input Frequency	50/60Hz
Output Voltage	DC 78.3V (Max)
Output Current	170A (Max)
Output Power	12000W (Three-phase 380V input) 12000W (Single-phase 220V input) 6000W (Single-phase 110V input)
Net Weight	15.2kg
Secondary Li-ion Battery (ZAB1834-01)	
Voltage	68.4V
Capacity	34000mAh
Protection Level	IP56 (When installed on drone)
Battery Life	1500 cycles (Capacity will decrease, no usage limitation)
Weight	Approx. 15.3kg