A80 Agricultural Drone Full Specifications









Standard package: aircraft x1 | remote controller x1 | 12,000 W charger x1 | 34 Ah batteries x2

System	Dimension	Specification
Airframe	Symmetrical motor wheelbase	2535 mm
	Aircraft weight (with battery)	74.0 kg (spraying) / 74.0 kg (spreading)
	Rated takeoff mass	149.0 kg (spraying) / 149.0 kg (spreading)
Flight Parameters	Hover time*	>=5.5 min (149.0 kg takeoff mass & 34 Ah battery); >=14.0 min (74.0 kg takeoff mass & 34 Ah battery)
	Max flight speed	13.8 m/s
	Max working speed	10 m/s
	Horizontal distance limit	1000 m
	Max takeoff altitude	2000 m
	Recommended ambient temperature	0-40 C
Propulsion System	Motors	X75; 4 motors; 5000 W rated power per motor; approx. 75 kg max thrust per motor
	ESC	68.4 V (18S LiPo); 100 A rated working current; 5000 W rated power
	Propellers	Foldable propellers, 63 in / 1608 mm
Spraying System	Tank	75 L rated capacity
	Pump type	Dual-channel metering peristaltic pumps
	Max spray flow	20 L/min x2 = 40 L/min
	Nozzles	4 rear-mounted centrifugal nozzles; IP67
	Max atomization output	10 L/min x4 = 40 L/min
	Spray width	6-10 m
	Droplet size	30-500 um
Spreading System	Hopper	150 L
	Max hopper payload	80 kg

System	Dimension	Specification
	Feeding method	Metered auger feed
	Spreading method	Centrifugal disc distribution
	Spreading width	5-10 m
	Max feed rate	Up to 400 kg/min*
	Recommended working temperature	0-40 C
Lifting System	Max payload	80 kg
	Anti-sway support	Supported
	Rope length	15 m (standard)
	Touch-ground release	Supported
	Recommended working temperature	0-40 C
	Typical use	For agricultural, forestry, animal husbandry, and fishery scenarios
Flight Control	Flight controller	TIA2026
	Input voltage	30-80.0 V
	Rated power	20 W (excluding radar, pump, and other peripherals)
	Interfaces	CANBus, RS485, PWM, USB, etc.
	Protection rating	IP67 (with external connectors fastened)
	Operating environment	-10 C to 45 C
	Remote controller	TC3; 7-inch display; 2400-2476 MHz / 5725-5829 MHz; max communication distance 10 km; image transmission up to 3 km in agricultural operating environment
	RC battery and runtime	13,500 mAh x 7.4 V; 8-10 h; RTK precision point marking supported
GNSS	Hovering accuracy (RMS)	RTK off: H +/-0.6 m, V +/-0.3 m; RTK fixed: H +/-0.1 m, V +/-0.1 m
	Heading accuracy (RMS)	0.4 deg
Safety System	mmWave radar	0.1 m ranging accuracy; 1-30 m altitude-hold range; IP67
	LiDAR	0.1 m ranging accuracy; IP67; 360 deg horizontal / 90 deg vertical coverage
	Point-cloud generation	850,000 pts/sec
	FPV camera	FOV: H 86 deg / V 52 deg; 720p default, optional up to 1080p
	Low-light FPV	Full-color FPV for night and low-visibility work
	Night work lights	80 W dual-direction high-brightness lights (forward and downward)
Power System	Battery model	ZAB1834-01
	Battery	68.4 V; 18S 34 Ah / 34,000 mAh
	Battery protection	IP56 (installed on aircraft)
	Battery cycle life	1500 cycles
	Battery weight	Approx. 15.3 kg
	Charger model	TC1201P
	Charger input voltage	3-phase AC 175-450 V; single-phase AC 90-260 V
	Input frequency	50/60 Hz
	Output	DC 78.3 V (max); 170 A (max)
	Output power	12,000 W (3-phase 380 V input); 12,000 W (single-phase 220 V input); 6,000 W (single-phase 110 V input)
	Charger net weight	15.2 kg

* Hover time measured near sea level, wind speed below 3 m/s, ambient temperature 25 C.

* Spreading rate tested with medium-granule urea.