

AT-FC30 Tethered Power Supply System

Lightweight, compact and efficient all-weather communications tethered system

AT-FC30 high-altitude tethered system can carry modular mission payloads such as matrix lighting, electro-optical pods, communication base stations, reconnaissance radars, etc, Addressing the vulnerability of ground reconnaissance/relay equipment to terrain obstruction, effectively expanding the range of reconnaissance, surveillance, and communication relays. The series of tethered systems can support a hovering distance of 150 meters, a load capacity of 20~30kg, continuous hovering working time ≥ 24 hours, wind resistance \geq level 6.

Key Features:

1. Long endurance, wide coverage;
2. Fully automatic wire collection and release system;
3. Optical fiber can achieve gigabit network information transmission capacity;
4. It can be fixed or carried on the motor vehicles on duty;
5. Reconnaissance patrol, communication relay, electronic countermeasures, and frontal reconnaissance of positions.

Product advantages:

- 40KW max output power;
- Fully automatic cable release and retracting , with adjustable torque knob;
- One-key retracting function, you can quickly retract in an emergency;
- With carrying handle, built-in trolley wheels and storage bag for easy transportation;
- Wind resistance up to 16m/s;
- Safe landing in case of ground power interruption;
- The motor directly drives the cable reel, without vulnerable structures such as toothed chains, and the cable will never get stuck;



Specifications:

Airborne Power

Power	20KW
Weight	≤11Kg
Installation method	Aircraft hanging type
Protection level	IP55
Voltage	60V
Protection	Short circuit, overload, high temperature protection
Input voltage	1000-1300 VDC

Tethered Technical Specifications

Cable length	150m
Output power	40KW
Output voltage	1000~1300 VDC
Torque gear	0~10N, adjustable in multiple gears, retracting and releasing speed 0~2m/s
Protection function	Input overvoltage, undervoltage protection, output overvoltage, overcurrent, short circuit, overtemperature protection
Signal Transmission	Image transmission/Optical fiber optional
Product weight	≤ 40Kg
Protection Level	IP45
Product size	500*500*350mm
Ambient temperature	-30℃ -55℃

Matrix Lighting Parameters

Power	2000W
Luminous flux	280000 lm
Voltage	6S-14S
Installation	Snap-on without tools quick disassembly and assembly
Protect	Overvoltage, undervoltage, overtemperature protection
Control	0~100% stepless dimming/remote control
Illumination range	12000m ²
Protection level	IP45
Product size	150*45*22 mm
Weight	150g per piece
Ambient temperature	-30°C to 55°C

Application Scenarios:



Lighting



Rescue



Fire Fighting



Law enforcement