

**Endurance****Precision****Power**

## Applicable Models: DJI FC100

### System Advantages

- High Power Support: 30 kW / 200 kg class tethered system, supports full-power operation with 80 kg payload, optimized wind resistance.
- High-Voltage Supply: Ground station uses stable 1000V DC power, compatible with industrial, generator, and tram power sources; optimized high-temp tether  $\geq 300^{\circ}\text{C}$ .
- Intelligent Voltage Stabilization: Onboard power efficiency  $\geq 96\%$ , voltage fluctuation  $\leq \pm 1\%$ , dynamic compensation ensures stable supply under complex conditions.

### Applications

#### Urban Firefighting

Provides high-altitude aerial support for building fires, industrial complexes, and urban emergency response.

#### Forest Fire Control

Enables rapid deployment and targeted firefighting in forested areas with fire-extinguishing bombs and water/foam agents.

#### Disaster Response & Rescue

Supports operations during natural disasters, traffic accidents, and hazardous incidents, offering real-time aerial observation.

#### Nighttime Operations

High-brightness LED lighting modules provide long-duration illumination for night rescue and firefighting.

## Specification

### Product Configuration

- 40 kW tethered box with tether cable – 1 set
- Fully waterproof onboard power (biomimetic battery design) – 1 unit
- 380V AC power cable – 1 piece
- Various payload mounts – 1 set

### Tethered Ground Station Specifications

Input Voltage: AC  $380 \pm 10\%$ , three-phase, compatible with mains, generator, or other sources

Output Voltage: DC 1000V (rated)

Output Power: Rated 30 kW, Max 40 kW

Reel Speed: 0-2 m/s (adjustable)

Dimensions (L×W×H): 68.6 × 44.8 × 49.2 cm

Weight: 60 kg

Material: Aviation aluminum alloy

Protection: Strong/weak current separation, input undervoltage/overvoltage, output overvoltage/overcurrent/short circuit/overtemperature, Bluetooth control

### Tether Cable

Rated Current: 30 A, Max 35 A

Tensile Strength:  $\geq 3000$  N

Max Cable Length: 160 m

Durability:  $\geq 1000$  reeling cycles

Voltage Withstand:  $\geq 3000$  VDC (input/output), cable insulation  $\geq 3500$  VDC

Weight: 4.8 kg / 100 m

### Firefighting Payloads

Fire Extinguishing Bomb Launcher

- Size: 480 × 260 × 145 mm | Weight: 3 kg
- Mount: Quick-release | Peak Power:  $\leq 60$  W
- Max Load: 2 middle hooks 80 kg / 4 corners 50 kg
- Deployment: Sequential electronic control, single or multi-path
- Altitude Measurement: UAV radar-based
- Safety: Switches and status display
- Communication: DJI FlyCart 100 E-Port Lite | Control: PSDK

### Fire Hose Kit (40 mm)

- Dimensions: 2480 × 55 × 140 mm | Spray Gun Length: 2500 mm | Weight: 1.1 kg
- Mount: Quick-release | Spray Angle: Adjustable
- Extinguishing Agent: Foam / Water
- Recommended Altitude: 0-70 m | Hose Length: 90 m
- Pressure: 2.5 MPa | Burst Pressure: 3.2 MPa

### Window-Breaking Hose 2-in-1 Kit

- Dimensions: 2480 × 120 × 140 mm | Weight: 1.95 kg
- Spray Angle: Adjustable | Peak Power:  $\leq 15$  W
- Launch: Single / Double | Laser Aiming | Spray Effective Range: 10-15 m
- Communication & Power: DJI FlyCart 100 E-Port Lite

### Dry Powder Fire Extinguisher

- Dimensions: H 44 mm × R 375 mm | Net Weight: 19.25 kg | Capacity: 20 L
- Mount: Quick-release | Peak Power:  $\leq 50$  W | Operating Temp:  $-20^{\circ}\text{C}$  to  $+45^{\circ}\text{C}$
- Spray Distance: 5 m | Spray Time  $\leq 60$  s | Material: Ultra-fine dry powder
- Coverage: Max 100 m<sup>2</sup> | Rating: 02.5A/13B/E/5F
- Control: Electromagnetic valve, PSDK, reusable refillable canister

### Soft Water Bucket

- Diameter: 55 cm | Height: 52 cm | Capacity: 80 L | Weight: 11.5 kg
- Cable Length: 20 m | Communication: Wireless | Emergency Drop Max Load: 200 kg
- Fill: Top intake | Valve Response  $\leq 3$  s | Flow Rate  $\geq 20$  L/s
- Safety: One-button release, water release, and safety switch

## Contact Us:

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**Safety****Versatility****Reliability**

## C.FC100XF Firefighting Tethered Drone System



The C.FC100XF is a high-end tethered firefighting drone system designed for long-duration aerial operations. With 30 kW onboard power, high-strength tether, and versatile firefighting payloads, it provides stable, precise, and safe support for urban, forest, and industrial emergency response.

### Key Features:

- Provides  $\geq 6$  hours continuous power, supporting 80 kg payload at full power
- Firefighting capability: 40 mm hose, water up to 80 m, foam up to 160 m
- Total system weight  $\leq 80$  kg with quick-deploy frame and AC 380V tether
- Onboard 30 kW biomimetic power, MTOW 200 kg,  $\geq 96\%$  efficiency,  $\pm 1\%$  voltage stability
- Tether cable rated  $\geq 3000$  N, high-temp resistant  $\geq 300^{\circ}\text{C}$ ; core IP68 waterproof
- System failure  $\leq 1$  per 100 flights; supports power interruption protection and auto-return
- Ground station supports 160 m tether, 380V AC, 30 kW rated / 40 kW max output
- Full system deployable in under 10 minutes

### System Highlights

- Rapid Deployment: 0-160 m altitude in 5 minutes.
- Modular Design: Onboard power 14 kg, ground station  $\leq 60$  kg, quick assembly/disassembly.
- Enhanced Safety: Automatic voltage compensation, seamless power switching, IP67 waterproof, emergency parachute system.



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