

中国民用航空局
CIVIL AVIATION ADMINISTRATION OF CHINA

型号合格证数据单
TYPE CERTIFICATE DATA SHEET

编号/No: TC0091A-ZN

版次/Revision: 01

型别/Model:

E2MTR-30A

E2MTR-100A

批准人/Approved By:



职务/Title: 副局长

日期/date: 2026-04-01

本数据单是型号合格证（编号：TC0091A-ZN）的组成部分，它规定了获得该型号合格证的产品满足中国民用航空规章相关适航要求的条件和限制。

This data sheet, which is part of Type Certificate (No:TC0091A-ZN), prescribes condition and limitation under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Chinese Civil Aviation Regulation.

型号合格证持有人/Type Certificate Holder:

深圳市大疆创新科技有限公司/ SZ DJI Technology Co., Ltd.

深圳市南山区西丽街道西丽社区仙元路53号大疆天空之城T2大堂/Lobby of T2, DJI Sky City,
No. 53 Xianyuan Road, Xili Community, Xili Street, Nanshan District, Shenzhen

第一部分：E2MTR-30A 型别技术数据/ SECTION A: Model E2MTR-30A TECHNICAL DATA

A I. 概述/ General

1. 产品型别/Model: E2MTR-30A
2. 类别/Category: 限用类航空器/ Restricted category aircraft
3. 型号合格证申请日期/Date of Application for TC: 2023-07-28
4. 型号合格证批准日期/TC Issue Date: 2024-11-18

A II. 生产依据 Production Basis

依据生产许可证 (PC) 生产，生产许可证编号：PC0067A-ZN/ Production in accordance with the Production Certificate (PC), Production Certificate Number: PC0067A-ZN

A III. 审定基础/Certification Basis

《中型民用无人驾驶航空器系统适航标准及符合性指导材料(试行)》(民航适函(2024)52号)中适用的适航要求 / Applicable airworthiness requirements in Medium Civil Unmanned Aircraft Systems Airworthiness Standard and Compliance Guidance Materials (Trail) (CAAC AW Letter [2024] No.52)

A IV. 技术特性和使用限制/Technical Characteristics and Operational Limitations

1. 设计定义/Design Definition
详见《DJI-FC30 产品设计说明》(文件编号：DAFC30-AWD-DJI-001，版次 1.4 及后续批准版次) Details in DJI-FC30 Product Design Specification (Doc. No. DAFC30-AWD-DJI-001, Revision 1.4 and the subsequent approved revisions)
2. 航空器/Aircraft
a. 外形尺寸/Dimension
a) 货箱模式/ Cargo Mode
2800×3085×947 mm (机臂、桨叶展开/with arms and propellers unfolded)
1590×1900×947 mm (机臂展开、桨叶折叠/with arms unfolded and propellers folded)
1115×760×1027 mm (机臂折叠/with arms folded)
b) 空吊模式/ Winch Mode
2800×3085×820 mm (机臂、桨叶展开/with arms and propellers unfolded)
1590×1900×820 mm (机臂展开、桨叶折叠/with arms unfolded and propellers folded)
1115×760×900 mm (机臂折叠/with arms folded)
b. 重量/Weight
a) 最大起飞重量 (海平面附近) /Max. take-off weight-NSL:
95kg

- b) 最大起飞重量 (最大起飞海拔高度处) /Max. take-off weight (at Max. take-off altitude):
65kg (标准双电池模式/Standard Dual Battery Mode)
53.75kg (应急单电池模式/Emergency Single Battery Mode)
- c. 重心范围/C.G. range
详见《DJI FlyCart 30 用户手册》(文件编号: DAFC30-OA-MC1-DR-007, 版次 1.2 及后续经批准的版次)和《DJI FlyCart 30 大货箱产品信息》(文件编号: BC.AG.AA003294.01, 版次 1.0 及后续经批准的版次)
Details in DJI FlyCart 30 User Manual (Doc. No. DAFC30-OA-MC1-DR-007, Revision 1.2 and the subsequent approved revisions) and DJI FlyCart 30 Large Cargo Box Product Information (Doc. No. BC.AG.AA003294.01, Revision 1.0 and the subsequent approved revisions)
- d. 飞行模式/Flight Mode
手动飞行/Manual flight, 航线飞行/Route flight
- e. 飞行精度/Flight control accuracy
a) 偏航距离/Track accuracy:
 $\leq 5\text{ m}$ (水平和垂直方向/horizontal and vertical)
b) 速度偏差/Velocity accuracy:
 $\leq 1\text{ m/s}$
- f. 最大起飞海拔高度/ Max. take-off altitude (above sea level)
4500m
- g. 最大飞行海拔高度/ Max. flight altitude (above sea level)
6000m (空载/ Empty weight)
- h. 最大飞行真高/Max. operating Height (above ground level)
1500m AGL
- i. 速度/Speed
a) 最大飞行速度/Max. flight speed:
20m/s (手动飞行/ Manual flight)
15m/s (航线飞行/ Route flight)
b) 最大垂直爬升速度/Max. vertical climb speed:
5m/s
c) 最大垂直下降速度/Max. vertical descent speed:
3m/s
d) 开伞后的最大下降速度/ Max. falling speed after opening the parachute:

6m/s	
j.	最大可承受风速/Max. wind resistance 12m/s
k.	环境温度限制/Environmental Temperature Limit -20℃~45℃
l.	防护等级/Dust and Water-resistance rating 整机（不含电池）/Aircraft (without battery): IP55 动力电池/Battery: IP54
m.	电机/Motor 型别/Model: 10033D 装机数量/No. of Installed Units: 8 KV 值/KV value: 48rpm/V 最大功率/Max. power: 4000W/motor
n.	电调/ESC 型别/Model: TA101-ESC 装机数量/No. of Installed Units: 8 最大工作电流（持续）/ I_max (cont.): 100A 最大工作电压/V_max: 60V
o.	螺旋桨/Propeller 型别/Model: R5420 装机数量/No. of Installed Units: 8 对/8 pairs 直径/ Diameter: 54 inch 螺距/ pitch: 20 inch
p.	动力电池/Battery 型别/Model: DB2000 (BAX101-38000mAh-52.22V) 装机数量/No. of Installed Units: 1 或 2/1 or 2 标称电池电压/V_nom: 52.22V 电池额定容量/C Rated: 38000mAh with 0.5Cmin (25℃)
q.	ADS-B IN 型别/Model: D1 装机数量/No. of Installed Units: 1 接收频率/Receiving frequency: 978MHz, 1090MHz 接收范围/Receiving range: 15km
r.	降落伞/Parachute

型别/Model: DJI Parachute 装机数量/No. of Installed Units: 1 开伞方式/Parachute opening mode: 手动和自动开伞/Manual and Automatic trigger 最低开伞高度/Min. opening height: 60m AGL
s. 负载/Payload 类型/Type: 货箱/ Cargo box 型别/Model: / 装机数量/No. of Installed Units: 1 内部容积/Internal volume: 70L/138L 类型/Type: 电动空吊/ Electric winch 型别/Model: A2EWH-30A 装机数量/No. of Installed Units: 1 线缆长度/Cable length: 20m
3. 遥控器/Remote controller
a. 型别/Model DJI RC PLUS b. 控制模式/Control mode 一机一控、一机双控/Single control in one aircraft, Dual control in one aircraft c. 最小飞行机组/Minimum Flight Crew 1 人/机 (1 pilot/UAS)
4. 指挥控制数据链路/Command and Control Data Link
a. 视距链路/Direct data link a) 工作频率/Operating frequency: 2.400-2.4835 GHz, 5.725-5.850 GHz b) 有效作用距离 (无干扰、无阻挡) /ETR (w/o interference and blockage): FCC: 20 km; CE/SRRC/MIC: 8 km b. 4G a) 网络制式/Network Mode: FDD/TDD/WCDMA/GSM b) 4G 融合功能/4G fusion function 支持与无线电通信融合使用/Support for joint use with radio communications
5. 使用限制/Operational Limitations

- a. 航空器载货运行/ Aircraft cargo operations
- b. 禁止载人/Prohibited from carrying people
- c. 视距内运行和视距外运行/ VLOS and BVLOS
- d. 不在已知风速超过 12m/s、大雨、中/大雪、轻/中/重强度结冰或极端天气（包括但不限于闪电）环境运行/ Operation is prohibited in environments with known wind speed exceeding 12m/s, heavy rain, moderate/heavy snow, light/moderate/severe icing or extreme weather (including but not limited to lightning)
- e. 昼间和夜间运行/ Daytime and nighttime operation
- f. 不在人口密集区域上空飞行/Not flying over densely populated areas.
- g. 不在融合空域飞行/ No operation in integrated airspace.
- h. 大货箱模式（138L 货箱）仅支持双电池模式使用。大货箱模式下，运行前需操作人员自行确认货物重量和货物重心位置满足规定的范围/ The large cargo box mode (138L cargo box) is only supported in dual battery mode. In large cargo box mode, the operator must confirm that the weight and center of gravity of cargo meet the specified range before operation.

其他限制详见《DJI FlyCart 30 用户手册》（文件编号：DAFC30-OA-MC1-DR-007，版次 1.2 及后续经批准的版次）和《DJI FlyCart 30 大货箱产品信息》（文件编号：BC.AG.AA003294.01，版次 1.0 及后续经批准的版次）

Other Limitations please refer to DJI FlyCart 30 User Manual (Doc. No. DAFC30-OA-MC1-DR-007, Revision 1.2 and the subsequent approved revisions) and DJI FlyCart 30 Large Cargo Box Product Information (Doc. No. BC.AG.AA003294.01, Revision 1.0 and the subsequent approved revisions)

A V. 批准的技术资料/Approved Technical Documents

1. 《DJI FlyCart 30 用户手册》（文件编号：DAFC30-OA-MC1-DR-007，版次 1.2 及后续经批准的版次）
DJI FlyCart 30 User Manual (Doc. No. DAFC30-OA-MC1-DR-007, Revision 1.2 and the subsequent approved revisions)
2. 《DJI FlyCart 30 空吊系统使用说明》（文件编号：DAFC30-OA-MC1-DR-008，版次 1.0 及后续经批准的版次）
DJI FlyCart 30 Winch System User Guide (Doc. No. DAFC30-OA-MC1-DR-008, Revision 1.0 and the subsequent approved revisions)
3. 《DJI FlyCart 30 免责声明和安全操作指引》（文件编号：DAFC30-OA-MC1-OD-010，版次 1.0 及后续经批准的版次）
DJI FlyCart 30 Safety Guidelines and Disclaimer (Doc. No. DAFC30-OA-MC1-OD-010, Revision 1.0 and the subsequent approved revisions)
4. 《DJI FlyCart 30 大货箱产品信息》（文件编号：BC.AG.AA003294.01，版次 1.0 及后续经批准的版次）
DJI FlyCart 30 Large Cargo Box Product Information (Doc. No. BC.AG.AA003294.01, Revision 1.0 and the subsequent approved revisions)

5. 《DJI-FC30 持续适航文件清单》(文件编号: DAFC30-OA-MC1-DR-009, 版次 1.5 及后续经批准的版次)
DJI-FC30 Continuous Airworthiness Documents List (Doc. No. DAFC30-OA-MC1-DR-009, Revision 1.5 and the subsequent approved revisions)
6. 《DJI-FC30 产品设计说明》(文件编号: DAFC30-AWD-DJI-001, 版次 1.4 及后续批准版次)
DJI-FC30 Product Design Specification (Doc. No. DAFC30-AWD-DJI-001, Revision 1.4 and the subsequent approved revisions)

A VI. 注释/Notes

注 1 /Note 1: 本数据单中参数, 如无条件特别说明, 均按静止空气和海平面标准大气条件给出/ The parameters in this datasheet, unless otherwise specified, are given under conditions of still air and standard atmospheric conditions at sea level.

第二部分：E2MTR-100A 型别技术数据/ SECTION B: Model E2MTR-100A TECHNICAL DATA

B I. 概述/ General

1. 产品型别/Model: E2MTR-100A
2. 批准日期/Approval Date: 2026-04-01

B II. 生产依据 Production Basis

依据生产许可证 (PC) 生产, 生产许可证编号: PC0067A-ZN/ Production in accordance with the Production Certificate (PC), Production Certificate Number: PC0067A-ZN

B III. 审定基础/Certification Basis

《中型民用无人驾驶航空器系统适航标准及符合性指导材料 (试行) 》 (民航适函 (2024) 52 号) 中适用的适航要求 / Applicable airworthiness requirements in Medium Civil Unmanned Aircraft Systems Airworthiness Standard and Compliance Guidance Materials (Trail) (CAAC AW Letter [2024] No.52)

B IV. 技术特性和使用限制/Technical Characteristics and Operational Limitations

1. 设计定义/Design Definition
详见《DJI-FC100 产品设计说明》 (文件编号: DAFC100-OA-DR-001, 版次 1.3 及后续批准版次) Details in DJI-FC100 Product Design Specification (Doc. No. DAFC100-OA-DR-001, Revision 1.3 and the subsequent approved revisions)
2. 航空器/Aircraft
a. 外形尺寸/Dimension 3220×3224×975mm (机臂、桨叶展开/with arms and propellers unfolded) 1820×1840×975mm (机臂展开、桨叶折叠/with arms unfolded and propellers folded) 1105×1265×975mm (机臂折叠/with arms folded)
b. 重量/Weight a) 最大起飞重量 (海平面附近) /Max. take-off weight-NSL: 149.9kg b) 最大起飞重量 (最大起飞海拔高度处) /Max. take-off weight (at Max. take-off altitude): 135kg
c. 重心范围/C.G. range 详见《DJI-FC100 飞行手册文件清单》 (文件编号: DAFC100-OA-MC1-DR-006, 版次 1.0 及后续经批准的版次) 中的《DJI FlyCart 100 用户手册》 Details in the DJI FlyCart 100 User Manual in DJI-FC100 Flight Manual Document List (Doc. No. DAFC100-OA-MC1-DR-006, Revision 1.0 and the subsequent approved revisions)

- d. 飞行模式/Flight Mode
手动飞行/Manual flight, 航线飞行/Route flight
- e. 飞行精度/Flight control accuracy
- a) 偏航距离/Track accuracy:
 $\leq 1\text{ m}$ (水平和垂直方向/horizontal and vertical)
- b) 速度偏差/Velocity accuracy:
 $\leq 1\text{ m/s}$
- f. 最大起飞海拔高度/Max. take-off altitude (above sea level)
4500m
- g. 最大飞行海拔高度/Max. flight altitude (above sea level)
6000m (空载/Empty weight)
- h. 最大飞行真高/Max. operating Height (above ground level)
300m AGL (简易吊运/Lift)、1500m AGL (空吊/Winch)
- i. 速度/Speed
- a) 最大飞行速度/Max. flight speed:
20m/s (手动飞行/Manual flight)
15m/s (航线飞行/Route flight)
- b) 最大垂直爬升速度/Max. vertical climb speed:
5m/s
- c) 最大垂直下降速度/Max. vertical descent speed:
5m/s
- d) 开伞后的最大下降速度/Max. falling speed after opening the parachute:
6m/s (最大起飞重量不超过 149.9kg/Max. take-off weight $\leq 149.9\text{kg}$)
- j. 最大可承受风速/Max. wind resistance
12m/s
- k. 环境温度限制/Environmental Temperature Limit
-20°C~40°C
- l. 防护等级/Dust and Water-resistance rating
整机 (不含电池)/Aircraft (without battery): IP56
动力电池/Battery: IP54

m.	电机/Motor	
	型别/Model:	15516
	装机数量/No. of Installed Units:	8
	KV 值/KV value:	60rpm/V
	最大功率/Max. power:	8775W/motor
n.	电调/ESC	
	型别/Model:	15516 Electronic Speed Controller
	装机数量/No. of Installed Units:	4
	最大工作电流 (持续) / I_max (cont.):	122A
	最大工作电压/V_max:	60.9V
o.	螺旋桨/Propeller	
	型别/Model:	R6223-B
	装机数量/No. of Installed Units:	8 对/8 pairs
	直径/ Diameter:	62 inch
	螺距/ pitch:	22.5-26 inch
p.	动力电池/Battery	
	型别/Model:	DB2160 (BAX901-41000mAh-52.78V/52.5V)
	装机数量/No. of Installed Units:	1 / 2
	标称电池电压/V_nom:	52.78V/52.5V
	电池额定容量/C Rated:	41000mAh with 0.5Cmin (25°C)
q.	ADS-B IN	
	型别/Model:	D1
	装机数量/No. of Installed Units:	1
	接收频率/Receiving frequency:	978MHz, 1090MHz
	接收范围/Receiving range:	15km
r.	降落伞/Parachute	
	型别/Model:	DJI Parachute
	装机数量/No. of Installed Units:	1
	开伞方式/Parachute opening mode:	手动和自动开伞/Manual and Automatic trigger
	最低开伞高度/ Min. opening height:	110m AGL (自动/Automatic), 100m AGL (手动/Manual)
s.	负载/Payload	
	类型/Type:	简易吊运/ Lift
	型别/Model:	A2EDL-100A
	装机数量/No. of Installed Units:	1
	线缆长度/Cable length:	10m
	类型/Type:	电动空吊/ Electric winch

型别/Model:	A2EWH-100A
装机数量/No. of Installed Units:	1
线缆长度/Cable length:	30m
t. 导航制式/Navigation Mode	
a) 北斗版/ BeiDou Revision: BeiDou B1I/B2I/B3I/B2a/B2b/B1C	
b) 全频段版/ Full-Band Revision: GPS L1/L2, GLONASS F1/F2, BeiDou B1I/B2I/B3I, Galileo E1/E5b, QZSS L1/L2	
3. 遥控器/Remote controller	
a. 型别/Model	
TKPL2	
b. 控制模式/Control mode	
一机一控、一机双控/Single control in one aircraft, Dual control in one aircraft	
c. 最小飞行机组/Minimum Flight Crew	
1 人/机 (1 pilot/UAS)	
4. 指挥控制数据链路/Command and Control Data Link	
a. 视距链路/Direct data link	
c) 工作频率/Operating frequency:	
2.400-2.4835 GHz, 5.725-5.850 GHz	
d) 有效作用距离 (无干扰、无阻挡) /ETR (w/o interference and blockage):	
SRRC: 12 km; MIC/CE: 10 km; FCC: 20 km	
b. 4G	
a) 网络制式/Network Mode:	
TDD-LTE, FDD-LTE, WCDMA	
b) 4G 融合功能/4G fusion function	
支持与无线电通信融合使用/Support for joint use with radio communications	
5. 使用限制/Operational Limitations	

- a. 航空器载货运行/ Cargo-carrying operation only
- b. 禁止载人/Prohibited from carrying people
- c. 视距内运行和视距外运行/ VLOS and BVLOS
- d. 不在已知风速超过 12m/s、大雨、中/大雪、轻/中/重强度结冰或极端天气（包括但不限于闪电）环境运行/ Operation is prohibited in environments with known wind speed exceeding 12m/s, heavy rain, moderate/heavy snow, light/moderate/severe icing or extreme weather (including but not limited to lightning)
- e. 昼间和夜间运行/ Daytime and nighttime operation
- f. 不在人口密集区域上空飞行/ No operation over densely populated areas.
- g. 不在融合空域飞行/ No operation in integrated airspace.

其他限制详见《DJI-FC100 飞行手册文件清单》（文件编号：DAFC100-OA-MC1-DR-006，版次 1.0 及后续经批准的版次）中的《DJI FlyCart 100 用户手册》

Other Limitations please refer to the DJI FlyCart 100 User Manual in DJI-FC100 Flight Manual Document List (Doc. No. DAFC100-OA-MC1-DR-006, Revision 1.0 and the subsequent approved revisions)

B V. 批准的技术资料/Approved Technical Documents

1. 《DJI-FC100 飞行手册文件清单》（文件编号：DAFC100-OA-MC1-DR-006，版次 1.0 及后续经批准的版次）
DJI-FC100 Flight Manual Document List (Doc. No. DAFC100-OA-MC1-DR-006, Revision 1.0 and the subsequent approved revisions)
2. 《DJI-FC100 持续适航文件清单》（文件编号：DAFC100-OA-MC1-DR-007，版次 1.0 及后续经批准的版次）
DJI-FC100 Continuous Airworthiness Documents List (Doc. No. DAFC100-OA-MC1-DR-007, Revision 1.0 and the subsequent approved revisions)
3. 《DJI-FC100 产品设计说明》（文件编号：DAFC100-OA-DR-001，版次 1.3 及后续批准版次）
DJI-FC100 Product Design Specification (Doc. No. DAFC100-OA-DR-001, Revision 1.3 and the subsequent approved revisions)

B VI. 注释/Notes

注 1 /Note 1: 本数据单中参数, 如无条件特别说明, 均按静止空气和海平面标准大气条件给出/ The parameters in this datasheet, unless otherwise specified, are given under conditions of still air and standard atmospheric conditions at sea level.

第三部分：管理信息/SECTION C: ADMINISTRATIVE INFORMATION

C I.型号持有人记录/Type Certificate Holder Record

深圳市大疆创新科技有限公司
SZ DJI Technology Co., Ltd.

C II.修订记录/ Change Records

型号合格证数据单编号 /TCDS No.	版次/Revision	主要修订内容 /Changes	修订日期/Date
TC0091A-ZN	00	初次颁发 Initial Issue	2024-11-18
TC0091A-ZN	01	E2MTR-30A 新增大 货箱（138L 货箱）模 式，新增型别 E2MTR-100A,重新颁 发 /Revised for the large cargo box mode (138L cargo box) of E2MTR-30A and new model E2MTR-100A	2026-04-01