

ECO 50E

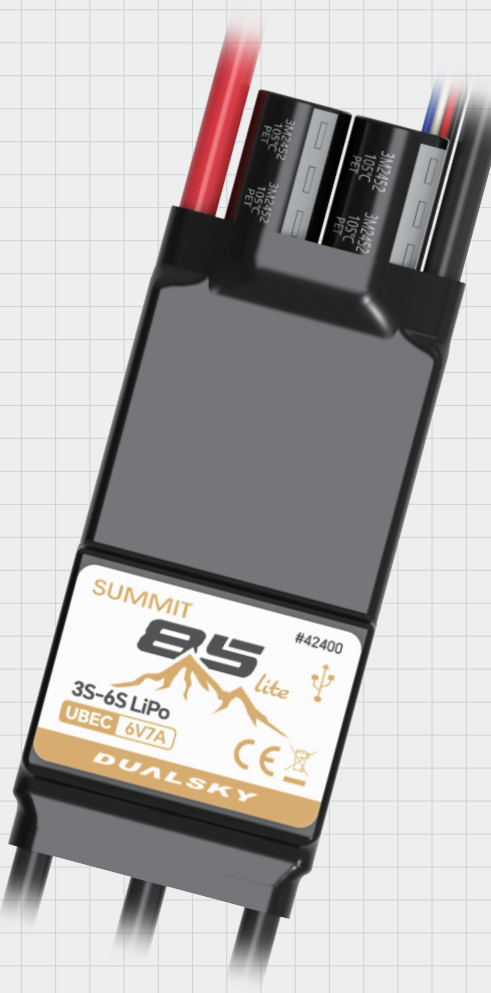
ECO POWER SYSTEMS

无刷动力套装

ECO 4120C V2 KV560



Summit 85LITE U6



KV 值	560
Turns 匝数	7
Weight 重量	280g
Dimensions(D x L) 尺寸	49.5x45.2 mm
Slots & Poles 槽数, 极数	12N14P
Ri(mOhm) 电阻	22.0
Io @10V (A) 空载电流	1.3
No.of Cells(LiPo) 适用电池	5..6
Max. EfficiencyCurrent 效率电流	42A
Max. Burst Current (15S) 峰值电流	70A
Max. Power(15S) 峰值功率	1400W
Max. Torque [N*M] 峰值扭矩	1.43
Shaft diameter 轴径	6 mm
Mountingholes pitch 安装孔距	30/30
Input Connectors 输入链接	GC4.0
RecommendedESC 调速器	Summit 85LITE
Propeller 螺旋桨	16x8, 1400W @20V with 5S LiPo
Class 适用机种	.65-.70 4-stroke .46-.55 2-stroke For popular 70E 3A&3D airplanes

Dimensions (L x W x H) 尺寸(不含线材)	84 x 36 x 9.5 mm (w/o wire)
Weight (w/ wire) 重量(含线)	84g
Number of Cell 电池串数	3S-6S LiPo, 11.1V-22.2V
Continuous Current 连续电流	85A
Bursts Current 峰值电流	110A
Resistance (Ri)(mOhm) 内阻	~2.4 mΩ
Battery eliminate circuit BEC 能力	Approximate value (Ta = 25 °C, phase to phase, full open)
Signal & Frequency 信号、频率	6.0V, Switching mode, 7A const./10A peaks
Timing System 进角系统	Default = PWM(upto 333Hz), THR calibration Enabled
Motor Direction 旋转方向	Programmable (Default=18°)
Programming 设定方式	Normal - Reversed - Bidirectional (4D flight & EDF Braking)
Start Power 启动力度	USBLINK MP (BLHeli32_Suite)
Work Frequency 工作频率	50% (Programmable)
Telemetry 数据回传	LOW = 24KHz, High = 24KHz (Programmable)
Energy Recovery 能量回收	ON (Auto telemetry enabled, protocol=KISS)
Brake On Stop 刹车系统	YES (Default=Disable, freewheel)
Maximum speeds 最大转速	Default=OFF (Adjustable)
Low voltage protection 低电压保护	PWM at 8KHz: 510k erpm, Multishot at 16kHz: 450k erpm
Acceleration 加速度	Dshot at 8kHz: 470k erpm
Overheat protection 过热保护	Dshot at 16kHz with sine: 280k erpm
Water & dusty proof 防水性	Programmable (Default=3.00V/cell)
Beacon Beeps 寻机鸣叫	Default =125ms (Programmable)
Input Wires 电源线	YES(Default=140 °C)
Wires to motor 电机线	IP43
Signal Wires 信号线	YES, 20 Mins
Tested motors 测试过的电机	12AWG, 200mm
	12AWG, 100mm w/ DB4F
	JR, 350mm + 1pin telemetry
	Dualsky EG, EA V3series, Dualsky ECO V2 Line, Dualsky GA Line....

Applications 应用场合

* Please follow the parameter compatibility requirements of the motor.

Middle class electric powered gliders,
3D/sports airplanes, F3As and Fixed wing UAVs/eVOLs

ECO 4120C (560KV) 拉力图表

18.5V Motor @ Optimum Efficiency 优化效率点

35.8

A

Current
电流

9205

rpm

Revolutions
转速

639

W

Electric Power
电功率

576.3

W

Mech. Power
机械功率

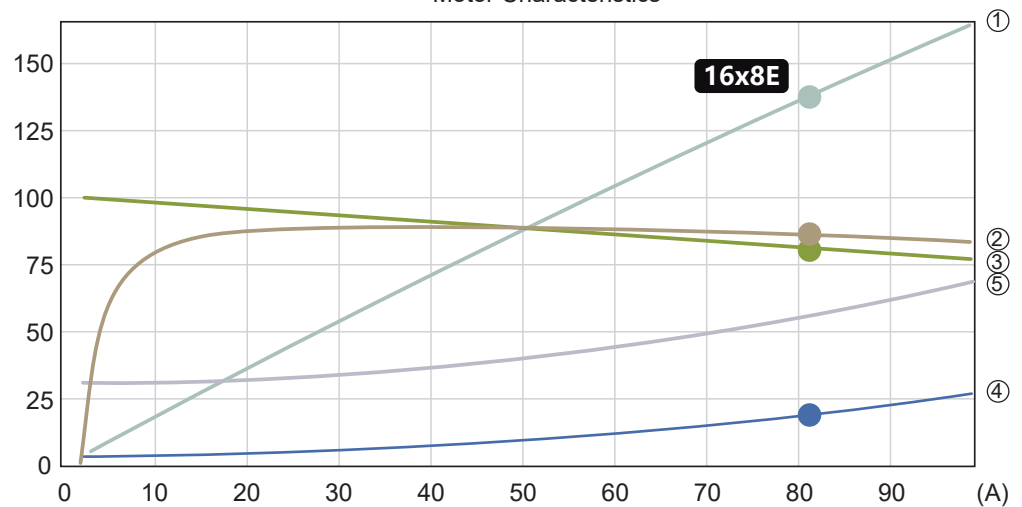
90.2

%

Efficiency
效率

Motor Characteristics

- ① el.Power [in 10W]
- ② Efficiency [%]
- ③ max. Revolutions [in 100rpm]
- ④ waste Power[W]
- ⑤ Motor Case Temp. [°C]



Voltage (V)	Propeller (RPM)	Throttle (%)	Current (A)	Volage (V)	el. Power (W)	Efficiency (%)	Thrust (g)	Spec. Thrust (g/W)
18.5V (5S LIPO)	16x8E							
	3000	32	3.9	18.4	71.4	85.8	794	11.1
	3600	39	6.6	18.4	121.1	87.5	1143	9.4
	4200	46	10.5	18.3	190.7	88.2	1555	8.2
	4800	53	15.6	18.2	284	88.4	2031	7.2
	5400	60	22.5	18.1	404.9	88.3	2571	6.3
	6000	68	31.2	18	557.4	88	3174	5.7
	6600	77	42.1	17.8	745.5	87.5	3841	5.2
	7200	85	55.8	17.6	973.5	87	4571	4.7
	7800	95	72.5	17.3	1245.6	86.5	5364	4.3
	8100	100	82.7	17.1	1405.7	86	5784	4.1