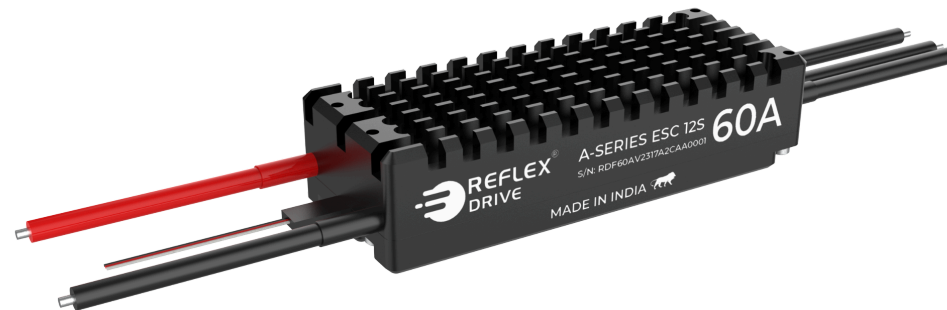


Reflex Drive

RD A-Series 60A ESC - Product Specification



Field Oriented Control



Over current
Protection



Startup
Protection



Over Temperature
Protection



Stuck Rotor
Protection

Product Description:

RD A-Series ESC 60A is an advanced Electronic Speed Controller (ESC) designed for high-performance applications. **Made in India**, this model significantly enhances thermal and current handling capabilities. Housed in a sleek and durable Aluminum enclosure, the ESC offers excellent heat dissipation and protection against harsh environmental conditions.

ESC Specifications

S No.	Item	Requirement	Remark
1	Input Voltage(S)	6~12S LiPo	-
2	Continuous output current(A)	30A (under Air flow condition)	-
3	Peak current(<30s)	60A (under Air flow condition in for 30 sec)	-
4	BEC output voltage	No	-
5	Operating ambient temperature(°C)	(-20°C) ~(+ 65°C)	±5°C
6	Operating humidity(%)	15% ~ 85%RH	±5%RH
7	Storage temperature(°C)	(-40°C)~(+65°C)	±5°C
8	Preservation humidity(%)	15%~85%RH	±5RH
9	Standby power	≤ 100mA	-
10	PWM range	1050us ~ 1900us	-
12	Recommended PWM Frequency	50 ~ 450Hz	-
13	Driving method	PWM & CAN	-
14	Telemetry	CAN only	-
15	Op-to isolation	PWM Only	

Protection/Warnings

S No.	List of Protection	Remarks
1	Over Temperature warning (OTW)	110 Degree
2	Stuck Rotor at start-up	Yes
3	Bad Motor Phase	Yes
4	Over Voltage Protection (OVP)	67V
5	Over Current Protection(OCP)	Yes
6	Signal Loss	Continue Beep (2-second interval)
7	Under Voltage Protection (UVP)	20V
8	Start-up Protection	Yes
9	Throttle Not Reset to Zero	Continue Beep (rapid beeping)

Main materials/Part specification

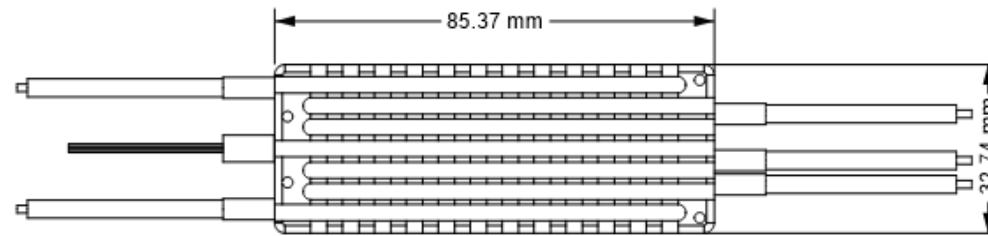
S No.	Item	Wire colors / Size	Length	Remarks
1	Input cables	Silicone wires-red/black- 14AWG	15cm	±1cm
2	Output cables	Silicone wires-black - 14AWG	8cm	±1cm
3	Signal wires	Silicone wires - black , white(2P)	19cm	±1cm
4	CAN Wires	Silicone wires - black, white, red(3P)	19cm	±1cm
5	Enclosure	Aluminium-black		

Dimensions of Enclosure

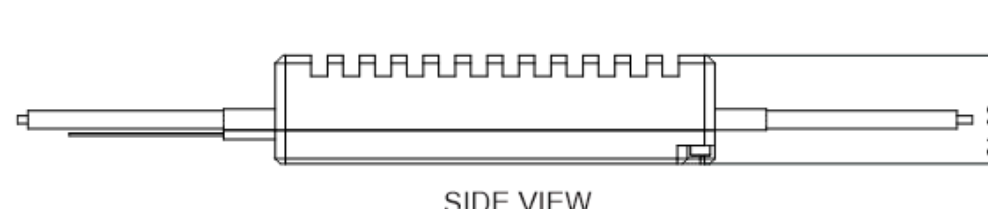
S No.	Item	Requirement	Remarks
1	Length	85mm	±0.4mm
2	Width	33mm	±1.2mm
3	Height	21mm	±0.1mm
4	Weight (incl. wire)	107	±2g
5	Shell weight	45g	±1g

Technical Drawing

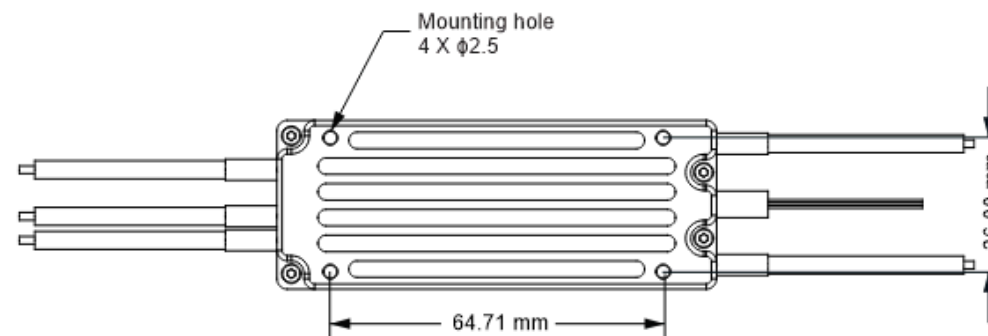
Note: All dimension in mm



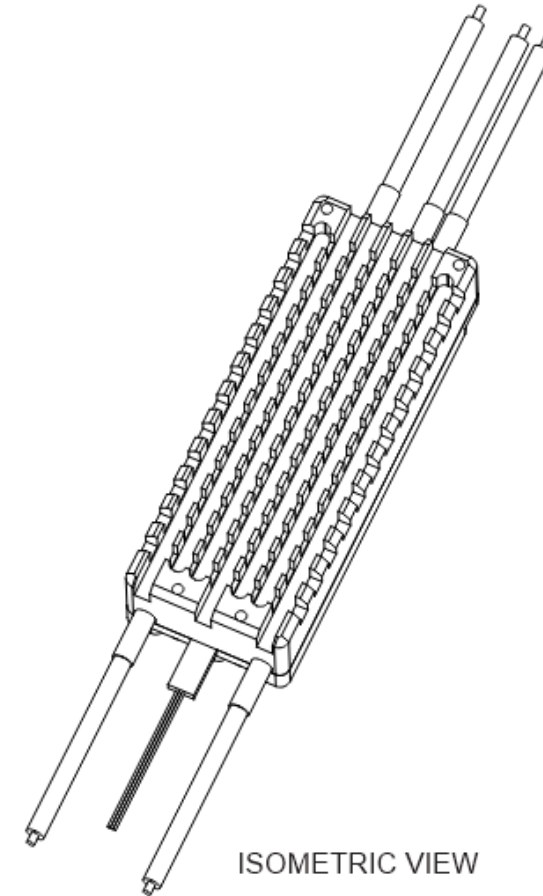
TOP VIEW



SIDE VIEW



BOTTOM VIEW



ISOMETRIC VIEW

Recommended Motor Table

ESC	Motor	Voltage Range	Propeller
FOC 60A	T-motor Dust U8 Motor - KV85 KV	12S(LiPo)	CF PROP 29X8.7L
	Vector 6015 150 KV Motor	12S(LiPo)	Vector 2480 (foldable)
	Vector 8015 100 KV Motor	12S-14S(LiPo)	Vector 3010 (foldable)