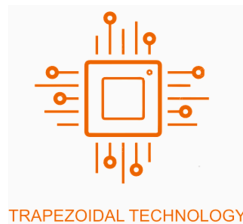
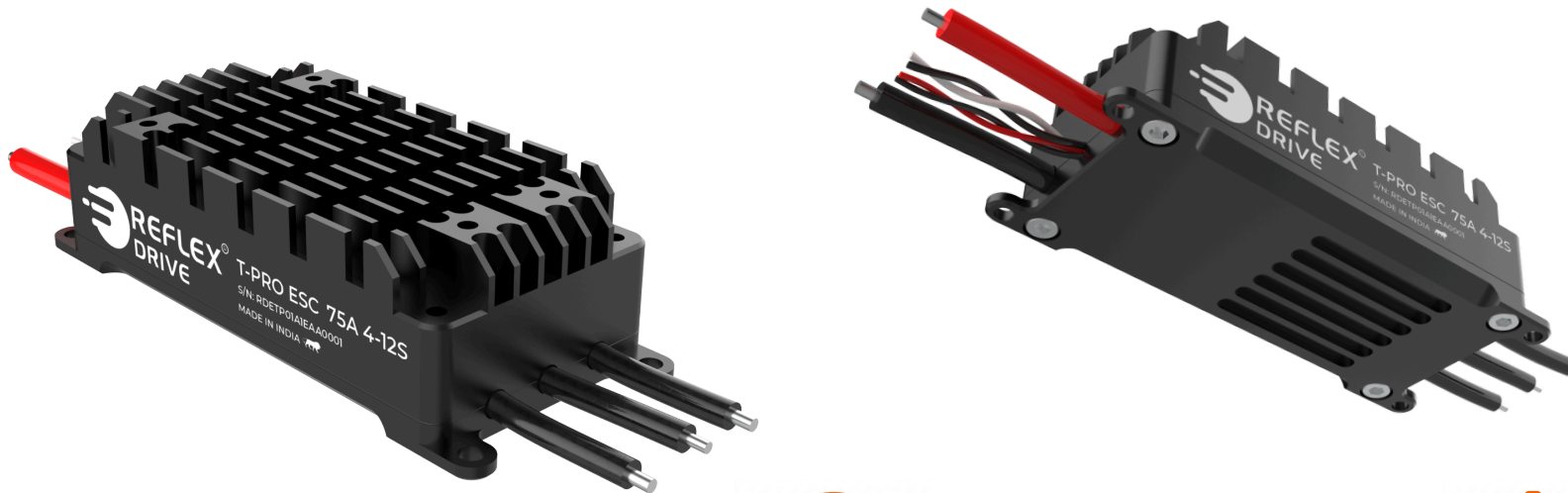


Reflex Drive

RD T-Pro V3 4S-12S 75A ESC



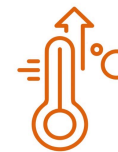
JSS 55555 Certified



Over current
Protection



Startup
Protection



Over Temperature
Protection



Stuck Rotor
Protection

Product Description:

RD T-Pro V3 4S-12S 75A ESC 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.

Technical Specification

S. No.	Parameter	Value	Remarks
1.	Input Voltage	4S - 12S LiPo	-
2.	Continuous Current	65A (60min , With Active Cooling)	Tested in 12.5 m/s continuous airflow and 28°C ambient Temperature
3.	Peak Current	75A (120s, With Active Cooling)	
4.	BEC Output Voltage	No	-
5.	Operating Ambient Temperature	(-20°C) ~(+ 65°C)	-
7.	Standby current (24V)	≤ 25mA	-
8.	Throttle Range (Can be calibrated)	1050us ~ 1950us	
9.	Recommended Throttle refresh frequency	50Hz	-
10.	Throttle I/P mode	PWM only	-
11.	Over Temperature Protection	Yes	-
12.	Overcurrent Protection	Yes	-
13.	Stuck Rotor Protection	Yes	-
14.	Waterproof Rating	IP56	-
15.	Startup Protection	Yes	-
16.	Invert Motor Spin	Yes	Configured using RD GUI
17.	Telemetry	Yes	Voltage, Current, PCB Temperature, Motor eRPM
18.	Braking Feature	No	-

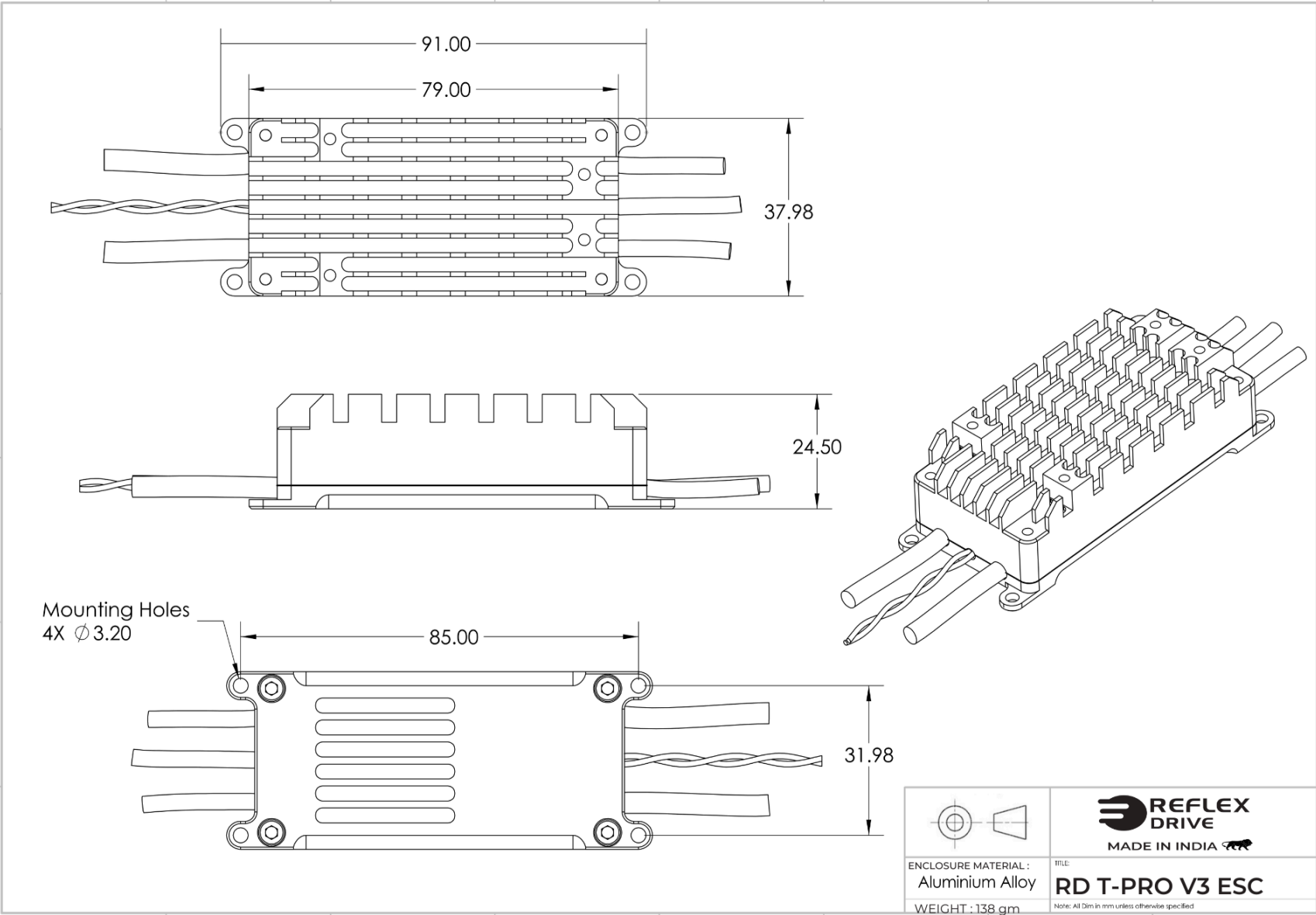
Wire and Enclosure Specification

S No.	Item	Wire colors / Size	Length	Remarks
1	Input cables	Silicone wires-red/black- 12AWG	10cm	±1cm
2	Output cables	Silicone wires-black(x3) - 14AWG	12cm	±1cm
3	Signal wires	Silicone wires - black , white(2P) 2P-JR	22cm	±1cm
4	Telemetry wires	Silicone wires - black , red(2P) 2P-JR	25cm	±1cm

Dimensions & Weight

S No.	Item	Requirement	Remarks
1	Length	79mm (91mm with mount hole)	±1mm
2	Width	38mm	±1mm
3	Height	24.5mm	±1mm
7	Weight(Incl. ESC with wire)	135g	±1g

Technical Drawing:



RD T-Pro V3 4S-12S 75A ESC

High Performance Industrial ESC



ESC : T-Pro V3 ESC 75A
Motor : 6218 9K Series (170Kv)
Propeller : 2480 Syfero
Voltage : 48V SMPS

Throttle %	Servo	Time(sec)	Voltage (V)	RPM	Current (A)	Power (W)	Temperature ESC(°C)	Max temperature (°C)
0.00%	1050	0	48.03	0	0	0	29.7°C	Max temperature after turn off the Power supply ECS: 50.9°C
5.60%	1100	5	48.03	556	0	0	29.8°C	
22.20%	1250	20	47.98	1555	1.41	71.1	30.°C	
27.80%	1300	25	47.93	1887	2.52	120	30.4°C	
33.30%	1350	30	47.84	2176	3.76	180	30.8°C	
38.90%	1400	35	47.73	2485	5.51	263	31.4°C	
44.40%	1450	40	47.61	2749	7.54	353	32.2°C	
50.00%	1500	45	47.52	3023	9.83	461	32.9°C	
55.60%	1550	50	47.38	3275	12.59	597	34.1°C	
61.10%	1600	55	47.22	3518	15.38	726	35.1°C	
66.70%	1650	60	46.99	3742	18.64	875	36.4°C	
72.20%	1700	65	46.78	3938	22.42	1052	37.4°C	
77.80%	1750	70	46.58	4154	26.05	1203	38.6°C	
83.30%	1800	75	46.32	4344	30.68	1427	40.3°C	
88.90%	1850	80	45.98	4521	35.5	1624	41.7°C	
94.40%	1900	85	45.65	4681	40.19	1852	43.5°C	
100.00%	1950	90	45.1	4982	50.38	2281	45.1°C	