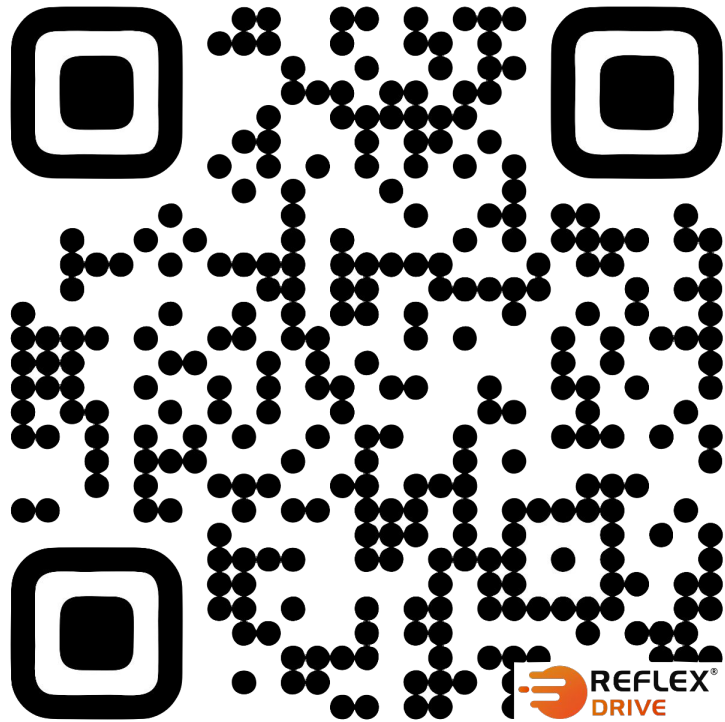




MADE IN INDIA 



RD D-Pro V3 ESC

TRAPEZOIDAL SERIES

Specifications

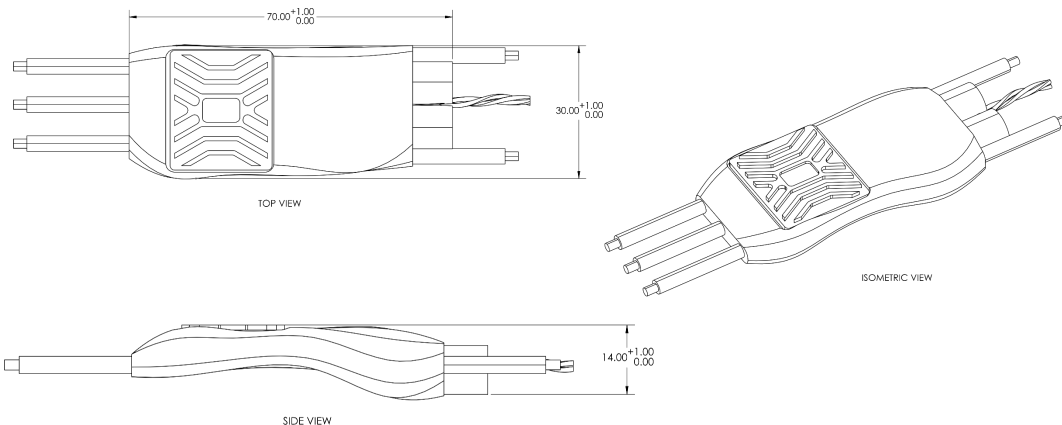


RD D Pro V3 ESC

- Reflex Drive's D Pro V3 trapezoidal electronic speed controllers (ESC) with Current Sensing drive for BLDC motors – and are proudly Designed and Manufactured in India.
- The trapezoidal ESCs are designed to deliver superior performance and reliability, with customizable firmware and advanced safety features that make it the ideal choice for drone enthusiasts and commercial drone operators alike.

PRODUCT DRAWING

Note: All dimensions in mm



Product name	RD D-Pro V3 ESC 60A 6S
Country of Origin	India
Servo Freq/Refresh Rate	50 Hz
Maximum Peak Current	60 A (10 s) (Condition: Note-1)
Maximum Continuous Current*	25A (Air Flow > 6.5m/s)
Maximum Continuous Power*	600 W
Maximum Temperature*	90°C
Voltage Range	6S (24V)
Internal BEC	None
PWM Range (can be calibrate)	1050-1950
ESC Size	70mm x30mm x 14mm
ESC Weight	40 gm(Apx.)
Compliant	IPC Class-2
Certification	JSS-55555 ➤ Mechanical Shock Test, ➤ Random Vibration Test, ➤ Resonance Search Test, ➤ Sinusoidal Vibe

TRAPEZOIDAL SERIES: RD D-Pro V3 ESC 4S-6S, 60A

Power Leads AWG	14 AWG, 200°C
Motor Leads AWG	14 AWG, 200°C
ESC Signal Control Lead	22 AWG, 2-Wire JR (W-B)
ESC Telemetry Lead	22 AWG, 2-Wire JR (R-B)
Telemetry	Voltage, Current, Temperature, eRPM
Communication Protocol	PWM, Dshot300
Protection	OTP, OCP
IP Rating	----
Tested Motors	5008, 4006, 7005
Firmware	Reflex Drive Proprietary Firmware (latest Version : 80.6)
Enclosure (Heatsink)	Aluminum Alloy
Note 1	ESC requires consistent airflow (6m/s or greater) across the heatsink to maintain maximum continuous current and power ratings during operation, specified at full-load condition (100% throttle). Increasing airflow or adding additional cooling can further increase the capabilities of the controller and extend the lifespan of the critical internal components.
Note 1	Extending the ESC power leads is at your own risk. Additional capacitance must be added if the DC wire length between the ESC and power source is longer than 12 inches.

ESC : RD D-Pro V3 ESC 6S, 60A
 MOTOR : RD 5008 black close top (340KV)
 Propeller : RD 1760
 Power Source : SMPS 24V

Throttle	Servo	Voltage (V)	Thrust (g)	Current (A)	RPM	Power (W)	Temperature ESC (°C)	Max temperature
0.00%	1050	24.07	0.06	0	0	0	30.4°C	Max temperature after turn off the Power supply ECS:87.4°C
5.60%	1100	24.05	66	0.14	619	3.5	30.7°C	
11.10%	1150	24.03	130	0.3	959	7.1	31.5°C	
16.70%	1200	24.01	235	0.62	1278	15.1	32.4°C	
22.20%	1250	23.98	361	1.08	1662	26	34.1°C	
27.80%	1300	23.94	499	1.73	1998	41.5	35.9°C	
33.30%	1350	23.86	670	2.64	2325	63	38.3°C	
38.90%	1400	23.7	827	3.68	2605	85	41.4°C	
44.40%	1450	23.68	1005	4.97	2886	117	45°C	
50.00%	1500	23.52	1192	6.39	3143	150	48.9°C	
55.60%	1550	23.41	1377	7.95	3326	186	51.7°C	
61.10%	1600	23.31	1592	9.69	3528	226	55.3°C	
66.70%	1650	23.17	1775	11.75	3815	272	60.1°C	
72.20%	1700	23.01	1984	14.03	4019	323	62.7°C	
77.80%	1750	22.85	2161	16.3	4205	372	67.2°C	
83.30%	1800	22.69	2330	18.82	4368	429	71.1°C	
88.90%	1850	22.53	2496	21.24	4544	478	75.9°C	
94.40%	1900	22.28	2686	24.07	4672	536	78.7°C	
100.00%	1950	21.96	2968	29.11	4896	639	82.2°C	

ESC : RD D-Pro V3 ESC 6S, 60A
 MOTOR : RD 4006 black close top (415KV)
 Propeller : RD 1552
 Power Source : SMPS 24V

Throttle	Servo	Voltage (V)	Thrust (g)	Current (A)	RPM	Power (W)	Temperature ESC (°C)	Max temperature
0.00%	1050	24.05	0.06	0	0	0	30.°C	Max temperature after turn off the Power supply ECS:61.9°C
5.60%	1100	24.05	25	0.1	832	2.5	30.1°C	
11.10%	1150	24.05	62	0.18	1274	4.5	30.5°C	
16.70%	1200	24.03	121	0.35	1723	8.4	31.4°C	
22.20%	1250	24.01	191	0.64	2135	15.4	32.4°C	
27.80%	1300	24	279	0.99	2551	23.7	33.7°C	
33.30%	1350	23.94	367	1.4	2920	33.7	35.2°C	
38.90%	1400	23.93	462	1.96	3276	47	37.°C	
44.40%	1450	23.87	563	2.57	3600	61.6	38.8°C	
50.00%	1500	23.84	660	3.27	3903	78	40.8°C	
55.60%	1550	23.77	764	4.1	4192	97.4	42.8°C	
61.10%	1600	23.7	878	5.04	4482	119.6	45.7°C	
66.70%	1650	23.63	983	6.03	4748	142.8	47.4°C	
72.20%	1700	23.52	1083	7.23	5002	170	49.4°C	
77.80%	1750	23.43	1188	8.3	5223	198	51.5°C	
83.30%	1800	23.36	1297	9.63	5438	224.9	53.6°C	
88.90%	1850	23.27	1394	11.07	5645	257	55.6°C	
94.40%	1900	23.18	1482	12.45	5833	288.7	57.5°C	
100.00%	1950	23.02	1608	14.72	6102	339.1	59.7°C	