

RD T-SERIES V2 ESC 60A (4S-12S)

TRAPEZOIDAL SERIES



60A

Continuous Current

4~12S

LIPO

80 g

WEIGHT

Product Description

RD T-Series V2 ESC is an advanced electronic speed controller (ESC) designed for high-performance applications.

This model is significantly enhancing thermal and current handling capabilities.

With its sleek and durable aluminum enclosure, the ESC provides excellent heat dissipation and protection against harsh environmental conditions.

Testing and Validation

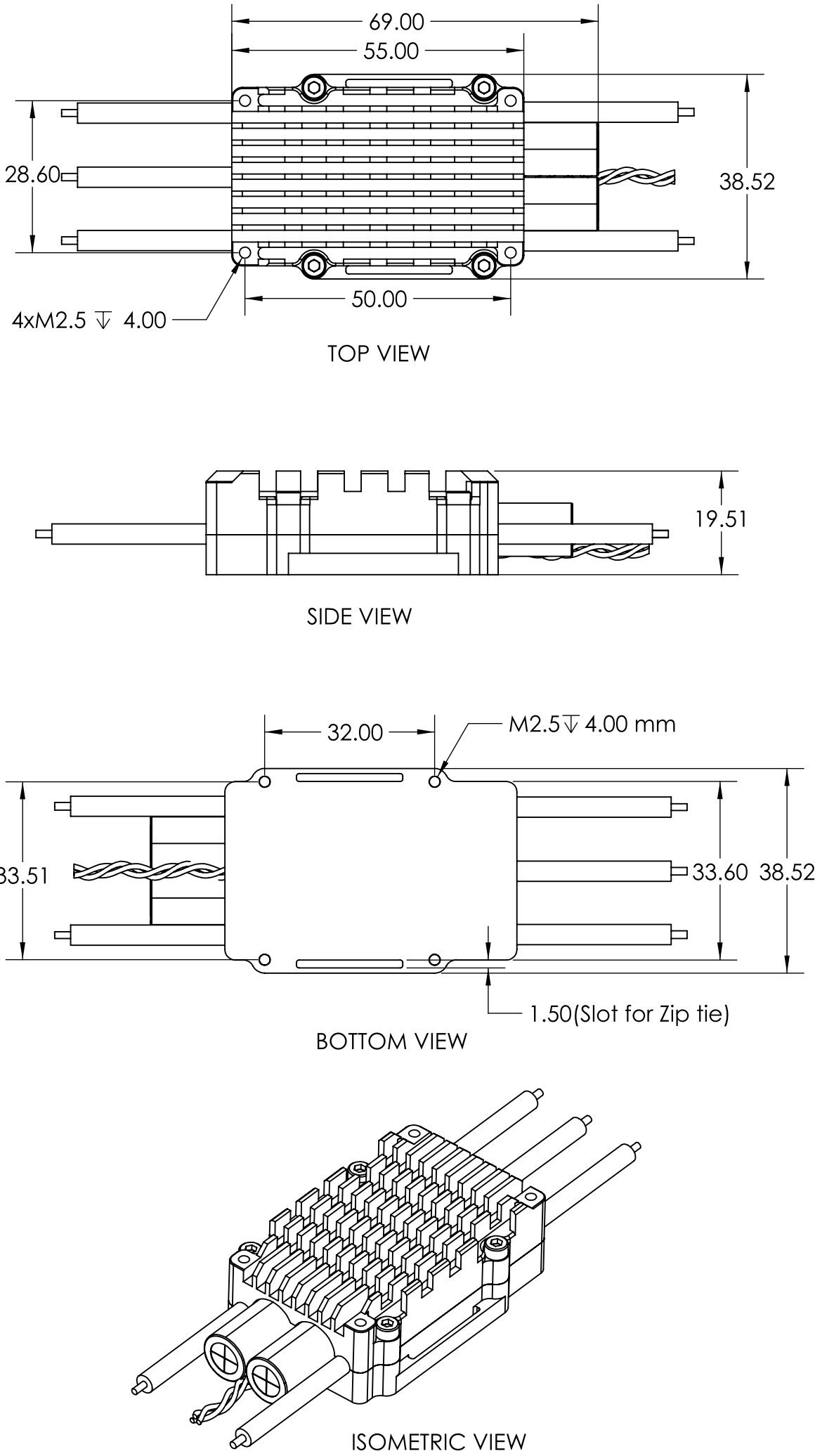
RD T-SERIES V2 ESC 12S-60A has undergone extensive and rigorous testing to ensure reliability, including:

- ▶ Continuous current durability tests with active cooling at 55A.
- ▶ Sync-loss Testing.
- ▶ Thermal Testing.
- ▶ Step Test.
- ▶ Thrust Bench Performance Test


Specifications



Name	RD T-Series ESC V2 4S-12S, 60A
Continuous Current Range (With Active Cooling)	60A
Voltage Range	4S-12S
BEC	No
Max Operating Temperature	90°C
Dimensions	55mm x38.50mm x 19.50mm
Weight (With Enclosure)	80 Grams (including Wire)
Telemetry	Yes
Current Sense	Yes
Communication Protocol	PWM, Dshot300
Over current Protection	Yes
Over Temperature Protection	Yes
Stuck Rotor Protection	Yes
Startup Protection	Yes
Waterproof Rating	IP 54
Without Enclosure Available	Yes
Without Enclosure Weight	44 Grams (Incl. Wire)

ESC Dimensions



Performance Data

Pictures	Motor	ESC	Propeller	Power Source	Time (sec)	throttle %	Servo	Voltage	Power (W)	Current (A)	RPM	Thrust (g)	Efficiency (g/W)	ESC Temp	Motor Temp
 	T-Motor U5 Motor 900KV Φ42.5×37.5 mm	RD T-Series V2 ESC 12S-60A	15"5CF	SMPS 24V	0	3.8%	1200	24.05	5.9	0.24	1052	19.00	3.22	25.6	25.5
					20	7.3%	1220	24.05	11.5	0.49	1740	72.00	6.26	25.9	25.8
					40	10.8%	1240	24.03	19.8	0.18	2318	155.00	7.83	26.3	26.3
					60	14.3%	1260	24.03	27.5	1.12	2753	246.00	8.95	26.8	27.0
					80	17.8%	1280	24.00	40.7	1.67	3247	345.00	8.48	27.6	27.7
					100	21.3%	1300	24.00	56.3	2.32	3690	439.00	7.80	28.2	28.3
					120	24.8%	1320	23.96	76.8	3.20	4183	582.00	7.58	29.3	29.2
					140	28.3%	1340	23.93	101.8	4.30	4626	672.00	6.60	29.8	30.2
					160	31.8%	1360	23.91	128.9	5.41	5022	931.00	7.22	30.0	30.8
					180	35.3%	1380	23.8	157.1	6.60	5384	1015.00	6.46	31.6	32.8
					200	38.8%	1400	23.77	195.0	8.15	5715	1131.00	5.80	32.8	34.7
					220	42.3%	1420	23.73	228.0	9.63	6087	1271.00	5.57	34.6	25.0
					240	45.8%	1440	23.68	271.0	11.60	6404	1432.00	5.28	36.0	36.8
					260	49.3%	1460	23.63	318.0	13.45	6775	1617.00	5.08	38.4	38.1
					280	52.8%	1480	23.51	371.0	15.76	7075	1727.00	4.65	40.9	39.6
					300	56.3%	1500	23.39	423.0	18.11	7401	1870.00	4.42	43.4	41.8
					320	59.8%	1520	23.37	482.0	20.70	7705	2051.00	4.26	45.3	42.4
					340	63.3%	1540	23.24	547.0	23.60	8006	2191.00	4.01	48.0	44.6
					360	66.8%	1560	23.14	608.0	26.20	8254	2482.00	4.08	50.9	44.7
					380	70.3%	1580	23.07	672.0	29.40	8464	2601.00	3.87	54.8	48.2
					400	73.8%	1600	22.98	756.0	32.70	8676	2731.00	3.61	60.3	52.7
					420	77.3%	1620	22.72	839.0	35.20	8876	2861.00	3.41	66.2	57.1
					440	80.8%	1640	22.6	915.0	38.40	9068	2998.00	3.28	69.7	60.5
					460	84.3%	1660	22.58	998.0	42.70	9245	3090.00	3.10	73.1	62.8
					480	87.8%	1680	22.49	1030.0	45.09	9405	3171.00	3.08	77.4	64.7
					500	91.3%	1700	22.39	1099.0	49.31	9563	3261.00	2.97	80.4	66.9
					520	94.8%	1720	22.18	1160.0	52.33	9688	3301.00	2.85	85.8	73.2
					540	98.3%	1740	22.04	1226.0	55.64	9851	3580.00	2.92	93.2	79.6
					560	100.0%	1750	21.93	1303.0	59.40	9980	3775.00	2.90	104.0	85.3

Pictures	Motor	ESC	Propeller	Power Source	throttle %	Servo	Voltage	Current (A)	Power (W)	RPM	Thrust (g)	Efficiency (g/W)	Motor Temp	ESC Temp
 	T Motor 7005(230kv)	RD T-Series V2 ESC 12S-60A	26inch Tmotor	smpps (28.65V)	3.8%	1200	28.65	0.05	03.0	293	25	8.33	19.8	20
					7.3%	1220	28.64	0.25	06.1	477	100	16.39	20.3	20.3
					10.8%	1240	28.64	0.27	06.9	652	180	26.09	20.5	20.7
					14.3%	1260	28.62	0.52	14.6	850	311	21.30	20.9	21
					17.8%	1280	28.62	0.72	20.3	933	386	19.01	21.5	22
					21.3%	1300	28.62	1.07	31.0	1108	524	16.90	22	23
					24.8%	1320	28.6	1.54	44.4	1263	701	15.79	22.8	24.7
					28.3%	1340	28.59	2.23	63.1	1428	881	13.96	24.3	26.5
					31.8%	1360	28.57	2.77	79.2	1564	1058	13.36	25.7	28.3
					35.3%	1380	28.55	3.39	103.0	1727	1286	12.49	26.7	30.3
					38.8%	1400	28.53	4.21	122.0	1842	1498	12.28	28.2	32.2
					42.3%	1420	28.52	5.31	154.0	1989	1747	11.34	30.2	34.2
					45.8%	1440	25.48	6.12	182.0	2113	1991	10.94	32.2	36.1
					49.3%	1460	28.46	7.99	225.0	2259	2301	10.23	35.5	38.4
					52.8%	1480	28.43	8.62	243.0	2342	2440	10.04	37.3	40.5
					56.3%	1500	28.39	9.98	285.0	2461	2709	9.51	39.6	42.6
					59.8%	1520	28.34	12.24	346.0	2574	3012	8.71	44.3	44.6
					63.3%	1540	28.32	13.89	385.0	2681	3219	8.36	48.2	46.7
					66.8%	1560	28.25	15.46	435.0	2793	3457	7.95	52.1	48.8
					70.3%	1580	28.22	16.51	478.0	2885	3750	7.85	56.1	51.3
					73.8%	1600	28.18	18.99	543.0	2971	4025	7.41	60.4	53.9
					77.3%	1620	28.11	20.88	595.0	3054	4252	7.15	66.6	56.4
					80.8%	1640	28.06	22.9	649.0	3139	4456	6.87	71.8	58.4
					84.3%	1660	28.01	25.22	704.0	3216	4704	6.68	72.9	60.1

ESC SPECS (WITHOUT ENCLOSURE)

ESC Weight (Without Wire Without Enclosure)



ESC Weight (With Wire Without Enclosure)



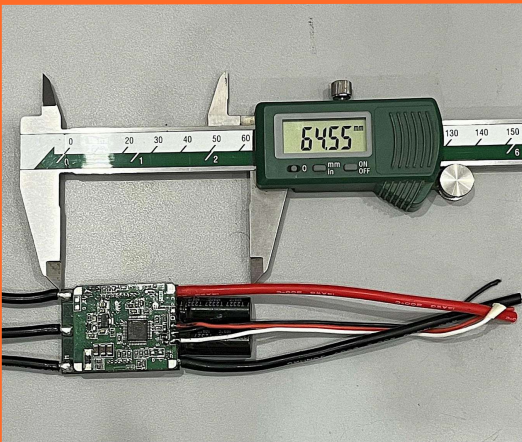
ESC Weight (With Wire With Enclosure)



WIDTH



LENGTH



THICKNESS

