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T500 Thruster





FROM: \$690.00

The T500 Thruster is our next-generation underwater thruster with three times more thrust than the [T200 Thruster](#). With a 24V / 43.5A power rating, high efficiency, and ruggedized design, it is an ideal choice for high-power ROVs, surface vessels, AUVs, and more! It comes with a [pre-installed WetLink Penetrator](#) for rapid integration into your system.



When choosing a speed controller, we recommend the [Basic ESC 500](#), which is designed for the high-power requirements of the T500 running at 24V. However, if you're operating at 18V or less, you may also use the original [Basic ESC](#) without any reduction in performance.

Technical Details

User Guides

Speed Controller

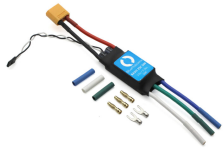
Available options:

Basic ESC 500 - \$95.00 ▾

Your selection:

Basic ESC 500

[Clear selection](#)



\$95.00

In stock

\$785.00

In stock

1 ▾

Add to Cart

Quantity	1 - 9	10 - 24	25 - 49	50 - 149	150+
Price	\$690.00	\$655.50	\$621.00	\$586.50	\$552.00

SKU: T500-THRUSTER-R1-RP

HS Code: 8501.31.4000

Description



Contents



Technical Details



Specifications

Parameter	Value
Performance ¹	

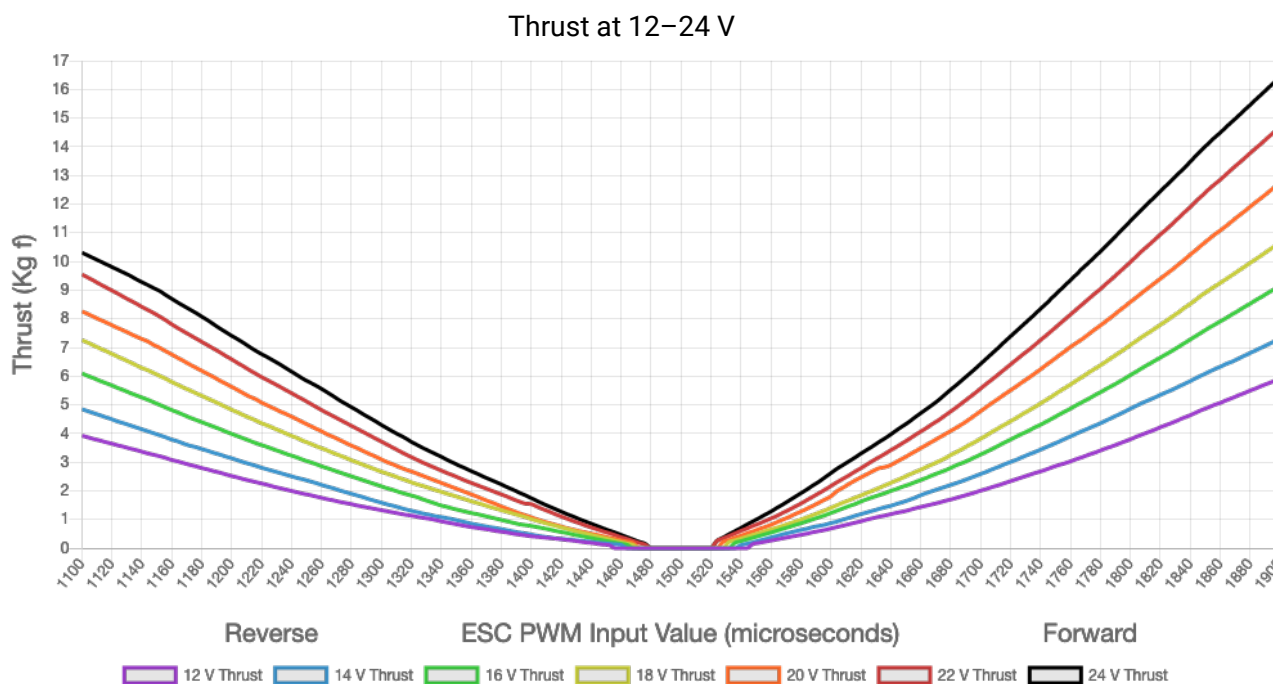
Parameter	Value	
Full Throttle FWD/REV Thrust @ 24 V	16.1 / 10.5 kg f	35.5 / 23.2 lb f
Full Throttle FWD/REV Thrust @ 20 V	13.0 / 8.5 kg f	28.6 / 18.8 lb f
Full Throttle FWD/REV Thrust @ 16 V	9.3 / 6.2 kg f	20.4 / 13.8 lb f
Full Throttle FWD/REV Thrust @ 12 V	6.0 / 4.0 kg f	13.2 / 8.9 lb f
Depth Rating	300 m	984 ft
Operating Water Temperature (full power at 24 V)	2-27°C	36-81°F
Electrical¹		
Operating Voltage	7-24 volts	
Motor Kv (no load)	202 RPM/V	
Full Throttle Current (Power) @ 24 V	43.5 Amps (1044 Watts)	
Full Throttle RPM @ 24 V	3100 RPM	
Full Throttle Current (Power) @ 20 V	34.0 Amps (681 Watts)	
Full Throttle RPM @ 20 V	2740 RPM	
Full Throttle Current (Power) @ 16 V	25.1 Amps (402 Watts)	
Full Throttle RPM @ 16 V	2350 RPM	
Full Throttle Current (Power) @ 12 V	16.9 Amps (202 Watts)	
Full Throttle RPM @ 12 V	1900 RPM	
Physical		
Length	160 mm	6.30 in
Diameter	141 mm	5.55 in
Core Diameter	62 mm	2.43 in
Propeller Diameter	114.5 mm	4.5 in
Weight in Air (with 1.5m cable)	1157 g	2.55 lb
Weight in Water (with 1.5m cable)	730 g	1.61 lb
Mounting Hole Threads	M4 x 0.7	
Mounting Hole Spacing	25 mm	0.98 in
Cable		
Overall Cable Length	1.5 m	59 in
Cable Length (Thruster to WLP)	1.37 m	54 in
Wire Length (WLP to end)	80 mm	3.1 in
Cable Diameter	9.0 mm	0.35 in
Conductor Gauge	12 AWG	
Penetrator		
¹ All thrust performance and electrical values are typical but may vary by about +/-5% between units. They are specified when using the Basic ESC 500. For more detailed performance specifications, including thrust, RPM, power, and efficiency at various throttle levels and supply voltages from 12–24 V, please see the performance charts below.		

Parameter	Value	
Pre-installed WetLink Penetrator	WLP-M14-9.5MM-HC	
Penetrator Thread	M14 x 1.5	
Penetrator Thread Length	25 mm	1.0 in
Penetrator O-ring	1.5x15mm Buna-N 70A	
<i>¹ All thrust performance and electrical values are typical but may vary by about +/-5% between units. They are specified when using the Basic ESC 500. For more detailed performance specifications, including thrust, RPM, power, and efficiency at various throttle levels and supply voltages from 12–24 V, please see the performance charts below.</i>		

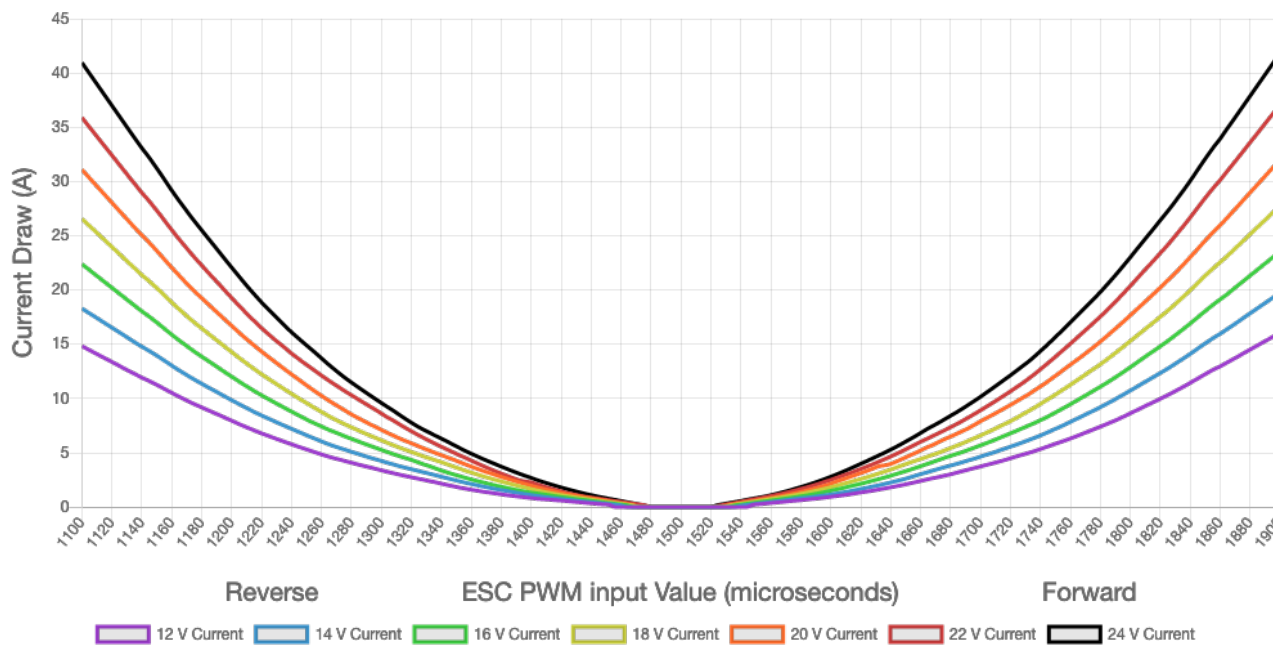
Performance Charts

Click on the legend to hide or show the data set for each voltage. All the raw data and notes on the testing procedure used to generate these charts can be downloaded here:

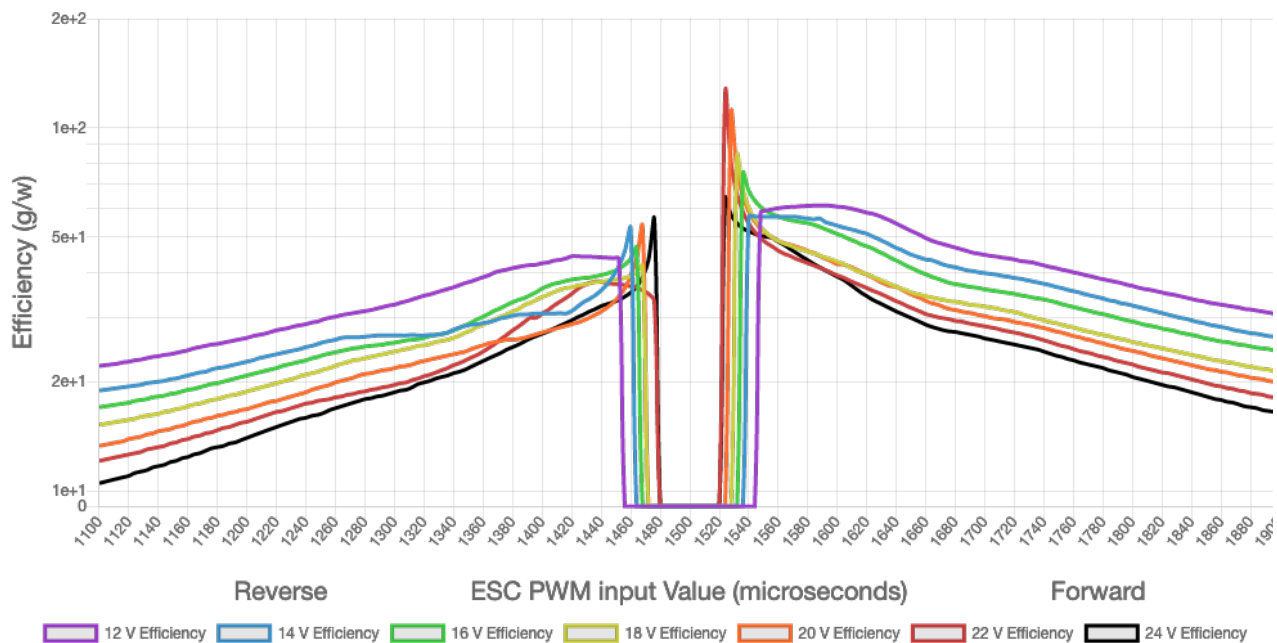
[Raw Data \(.xlsx\)](#)



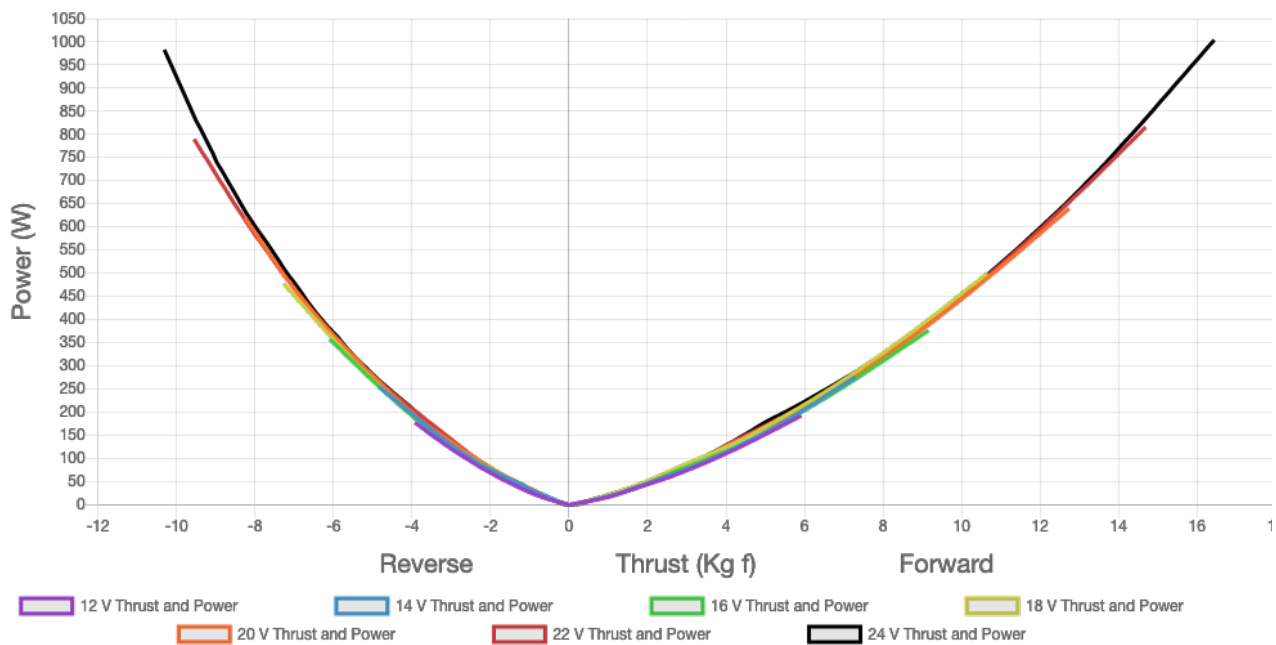
Current Draw at 12–24 V



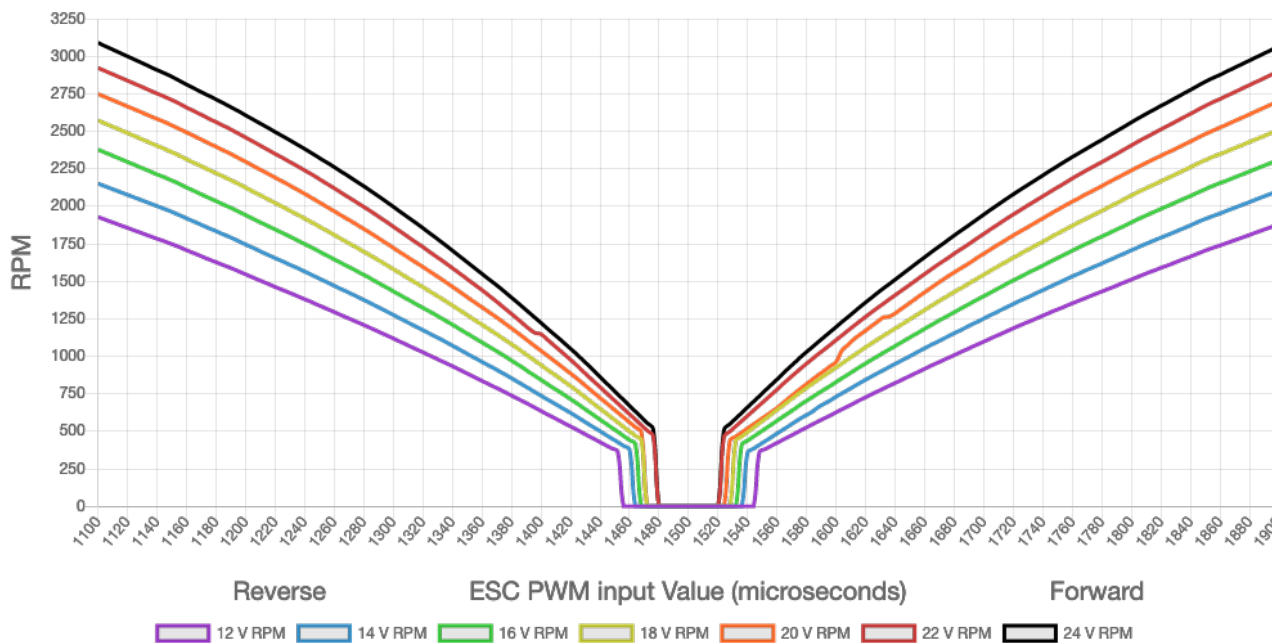
Efficiency at 12–24 V



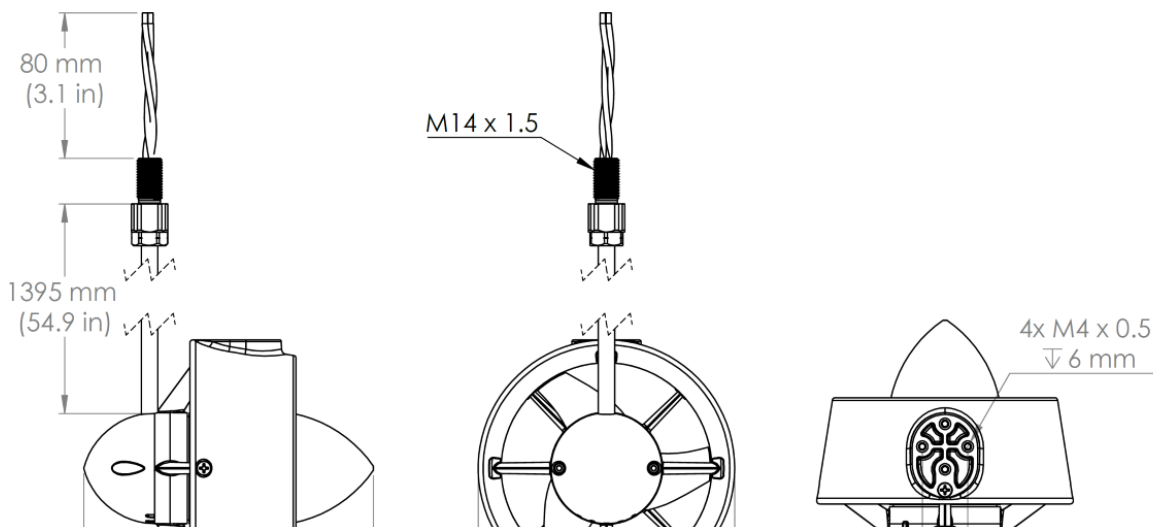
Thrust and Power at 12–24 V

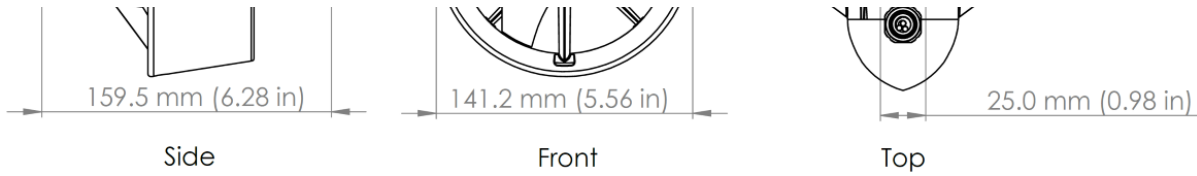


RPM at 12-24 V



2D Drawings





3D Models

[T500-THRUSTER-R1-PUBLIC](#) (.zip)

Revision History

23 August 2022

- Full availability

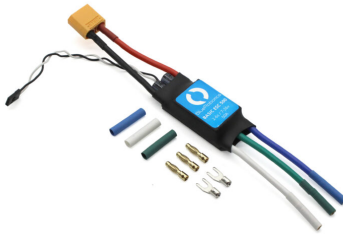
24 May 2022

- R1 - Initial Release (presales)

Guides



You May Also Need

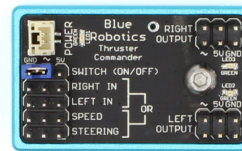


Basic ESC 500

Bidirectional electronic speed controller for the T500

\$95.00

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Lithium-ion Battery (14.8V, 15.6Ah)

High-power lithium ion battery for the BlueROV2



[Basic ESC](#)

Bidirectional electronic speed controller for the T200



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