

# DWT1

## Magnetically Coupling Brushless Underwater Thruster



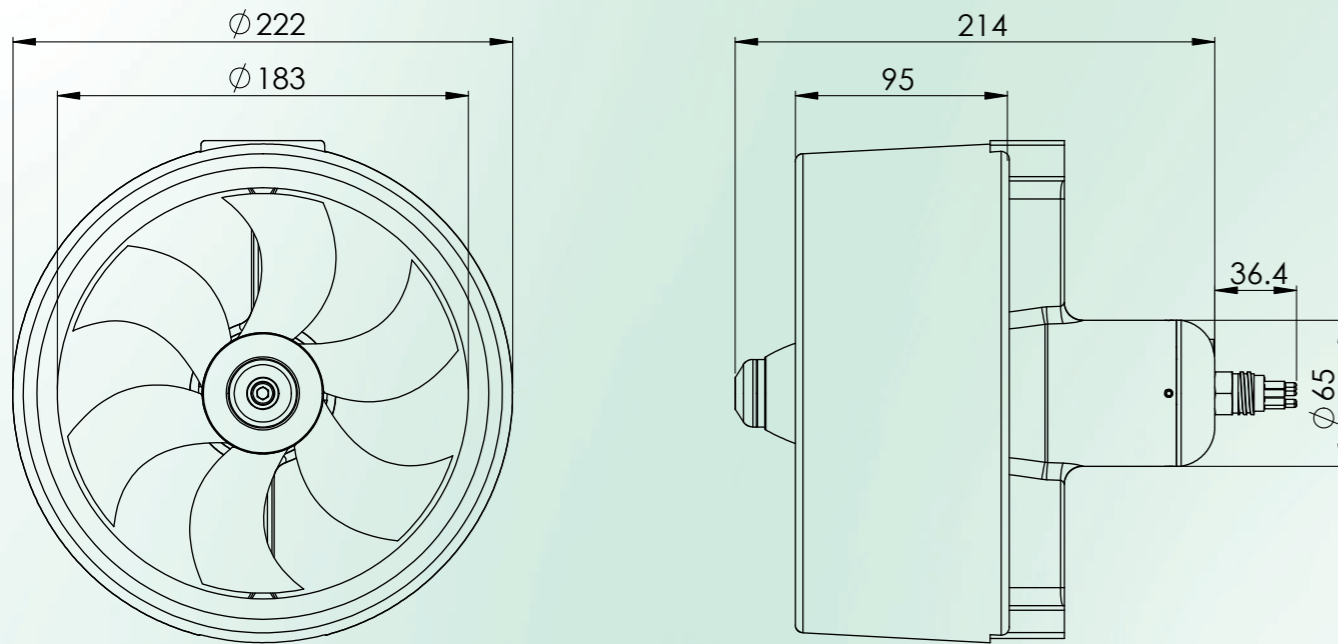
### Specification

Model	DWT1	
Operation Voltage	48VDC	300 VDC
Input Power	500W	500W
CW	12.4-13 kgf	14.3-15 kgf
CCW	11.8-12.4 kgf	13.1-13.8 kgf
Speed Control	RS485 / ± 5V / PWM	RS485 / ± 5V / PWM
Weight in Air	4 kg	4 kg
Weight in Water	1.6 kg	1.6 kg
Depth	1,000m	1,000m
Operation Temperature	-10~50°C	-10~50°C
Body Material	AL 6061-T6	AL 6061-T6
Connector	MCBH8M	MCBH8M
Gear Box Ratio	1:6	1:6
Shaft Seal (Rotary Seal)	No	No
Self oil compensator	No	No
Sealed	O-Ring	O-Ring

### Features

- ✓ Static seals: easy to maintain and zero failure out
- ✓ Easy installation to plug in-and-out
- ✓ Over-temperature protection, over-current protection
- ✓ Internal isolation between the power supply and signal supply system
- ✓ Customized service is available

## Dimension (48VDC,300VDC)



## Pin Assignment

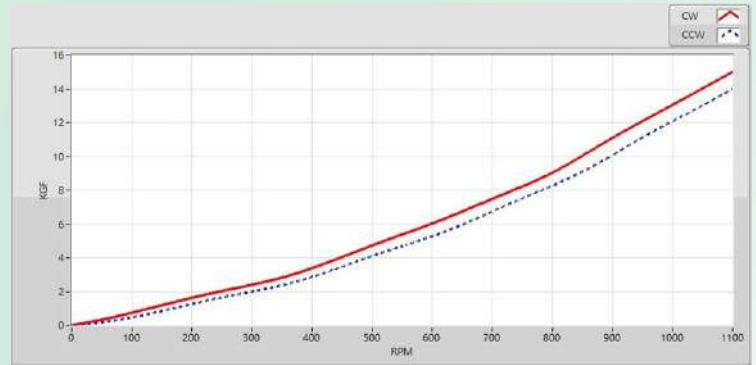
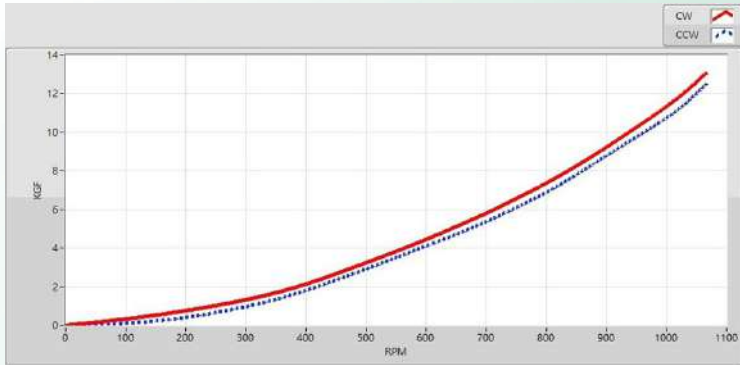
Female Inline Top View	Pin Assignment	Male Bulkhead Top View
	1 : GND 2 : GND 3 : +48 VDC 4 : +48 VDC 5 : RS485-A 6 : RS485-B 7 : ISO GND 8 : PE	
<b>48VDC, ±5V</b>		
	1 : GND 2 : GND 3 : +48 VDC 4 : +48 VDC 5 : +/- 5V 6 : N/A 7 : ISO GND 8 : PE	
<b>48VDC, PWM</b>		
	1 : GND 2 : GND 3 : +48 VDC 4 : +48 VDC 5 : PWM Signal 6 : N/A 7 : PWM Signal GND 8 : PE	

Female Inline Top View	Pin Assignment	Male Bulkhead Top View
<b>300VDC, RS485</b>		
	1 : HGnd 2 : PE 3 : +300 VDC 4 : +15 VDC 5 : RS485-A 6 : RS485-B 7 : ISO GND 8 : N/A	
<b>300VDC, ±5V</b>		
	1 : HGnd 2 : PE 3 : +300 VDC 4 : +15 VDC 5 : +/- 5V 6 : N/A 7 : ISO GND 8 : N/A	
<b>300VDC, PWM</b>		
	1 : HGnd 2 : PE 3 : +300 VDC 4 : +15 VDC 5 : PWM Signal 6 : N/A 7 : PWM Signal GND 8 : N/A	

# Performance

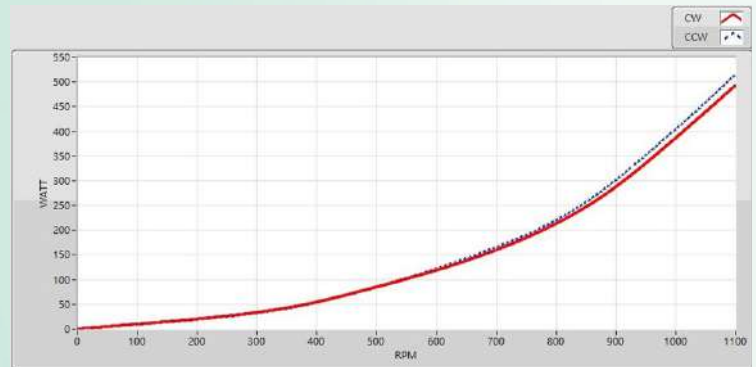
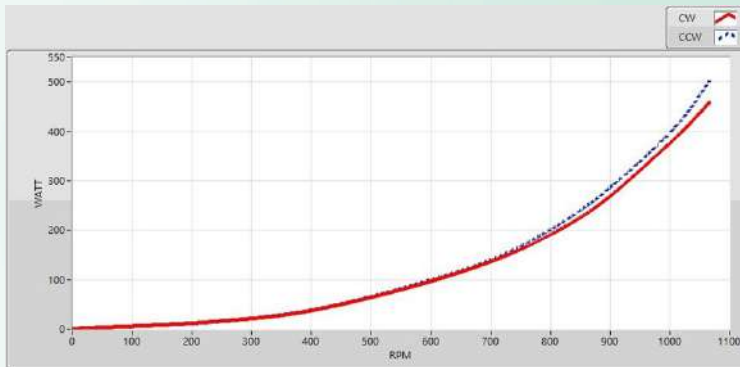
## 48VDC / 500W

## 300V / 500W



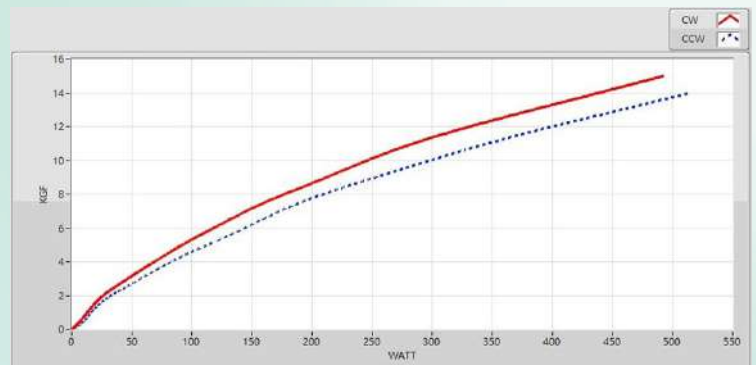
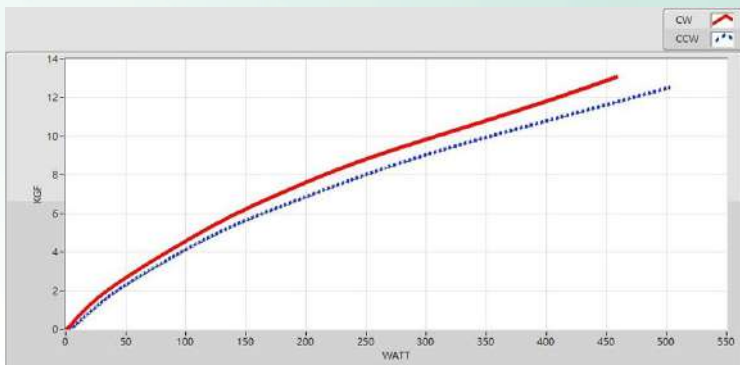
1. RPM VS. KGF

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2. RPM VS. Watt

2. RPM VS. Watt



3. Watt VS. KGF

3. Watt VS. KGF