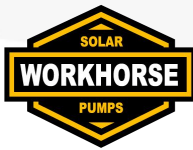




WORKHORSE

W4C, W6C, W4H





Volume Series

- Permanent Magnet DC brushless motor
- Rebuildable **centrifugal** pump end
- DC or AC Wide Input Range
- Field Repairable Helical Mechanism
- Internal variable speed controller
- 304 Stainless Steel pump and motor
- Variable current & Over voltage protection
- Water-lubricated thrust bearings
- Water-filled encapsulated motor
- Soft start and soft stop to extend life
- Built-in Run-Dry protection
- Extremely reliable
- Laser welded stainless housing
- Comprehensive 2 Year Warranty

Models:

W4C-26-600

W4C-65-280

W5C-125-80

Input Voltage:

DC 60 – 360VDC

Max Voc 450V

AC 120 – 240VAC 50/60Hz

Current Range: 1.5 – 8A

Power Input Range:

400w – 3000w

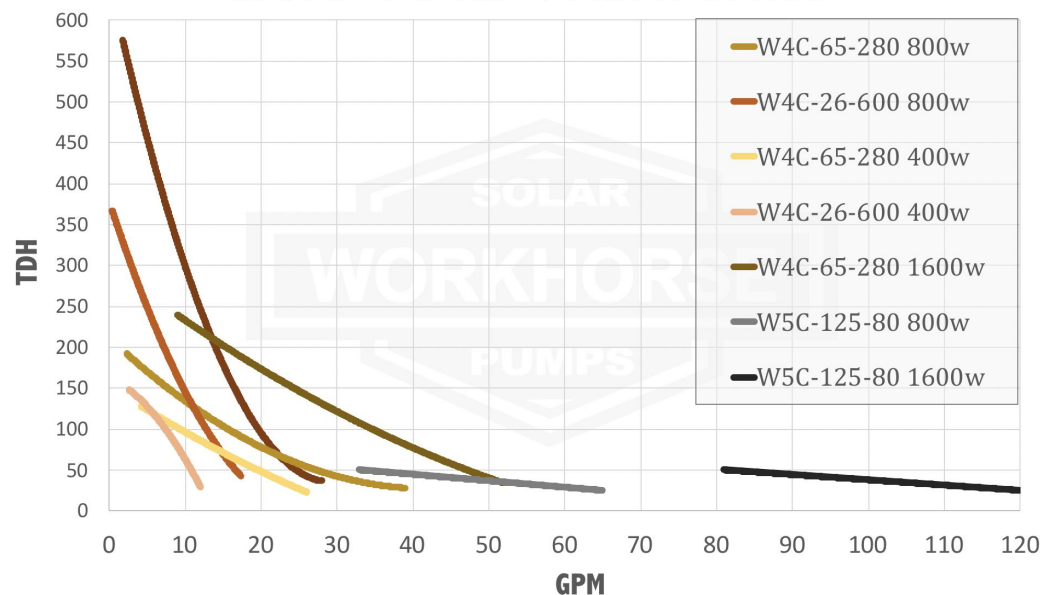
Speed Range: 500 –

4500RPM

Diameter: 4/5 Inch

Protection Class: IP 68

WORKHORSE Volume Series

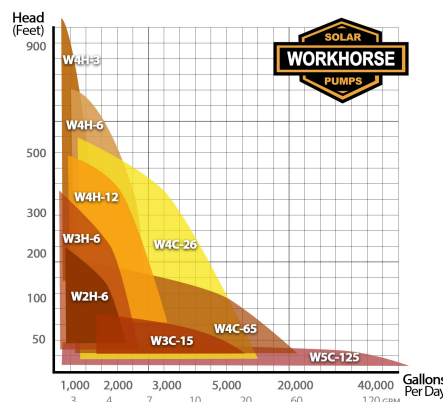


Ideal Applications

Higher volume, lower pumping head (Ponds, Canals, Springs)

Productive older wells with higher particulate count

Part of the USA
WORKHORSE
Family of
Solar-Powered
Water Pumps



VOLUME

Well Pumps

W4C-26-600

W4C-65-280

W5C-120-80

W6C-125-60

NARROW

Well Pumps

W2H-5-200

W3H-5-200

W3C-20-150

DEEP WELL

Helical Pumps

W4H-12-450

W4H-6-650

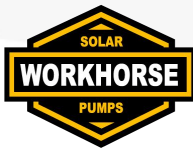
W4H-3-950

SURFACE

VFD Surface Pumps

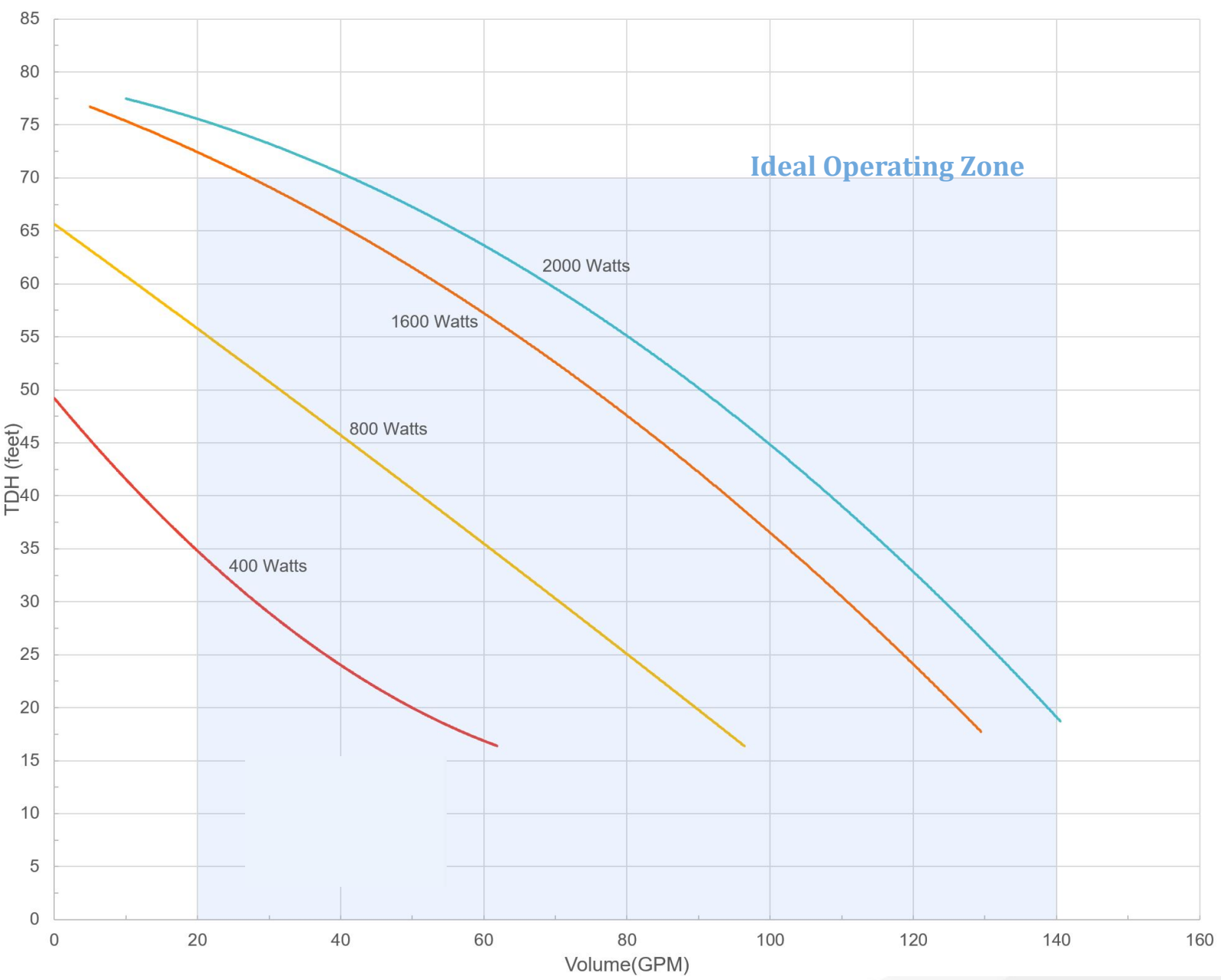
TP-750

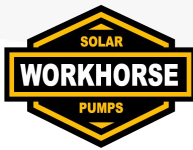
TP-750 + 24B



W6C-125-80 *VOLUME SERIES*

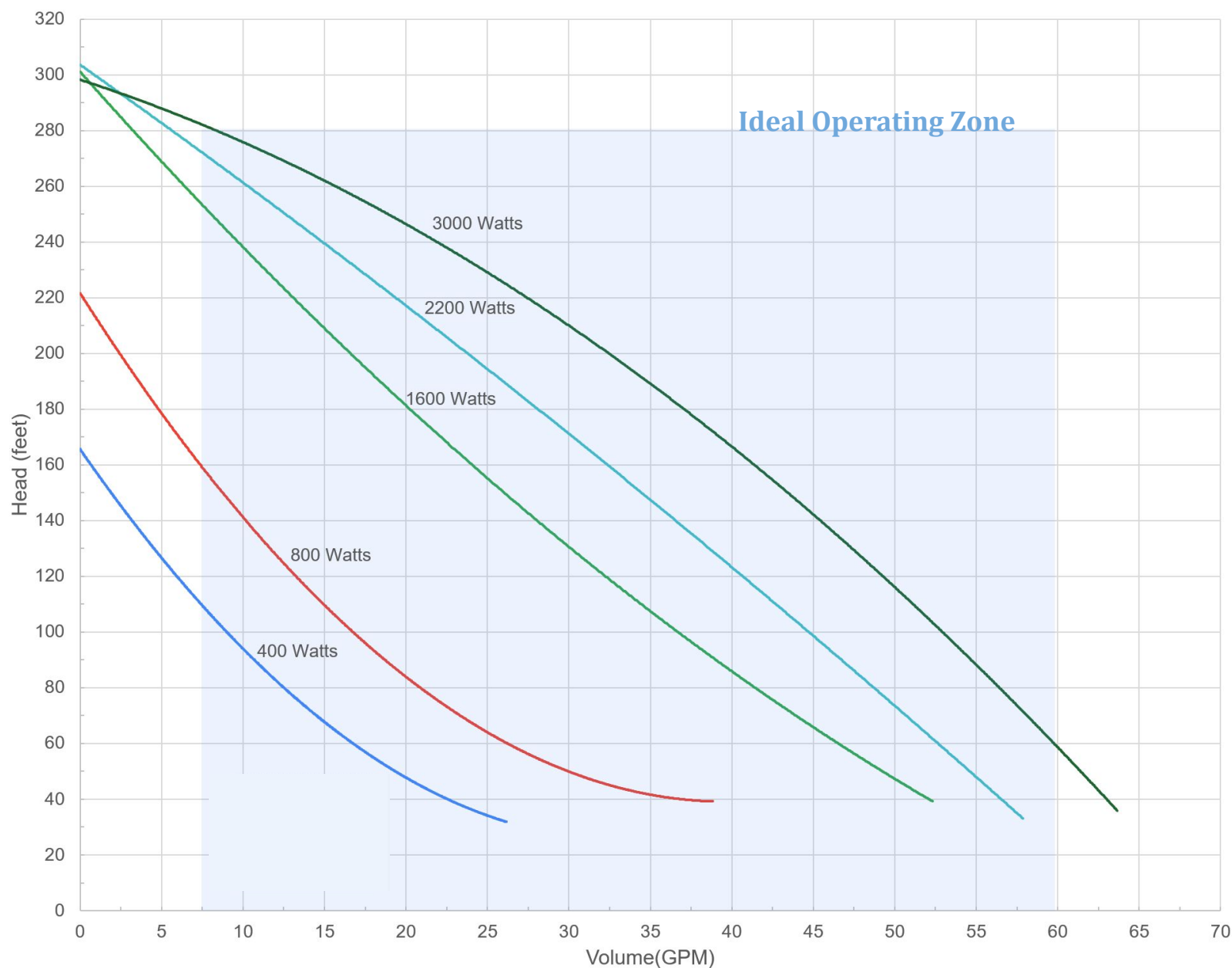
The W5C-125-80 is an ultra high volume centrifugal solar pump with a 5" OD pump end to allow for the higher pumping volumes. It is able to produce a maximum of 125 GPM and 80ft of pumping head. Featuring up to 2hp motor, it is ideal for irrigation projects, keeping ponds full and other applications where a large volume of water is required.

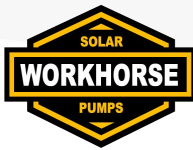




W4C-65-280 *VOLUME SERIES*

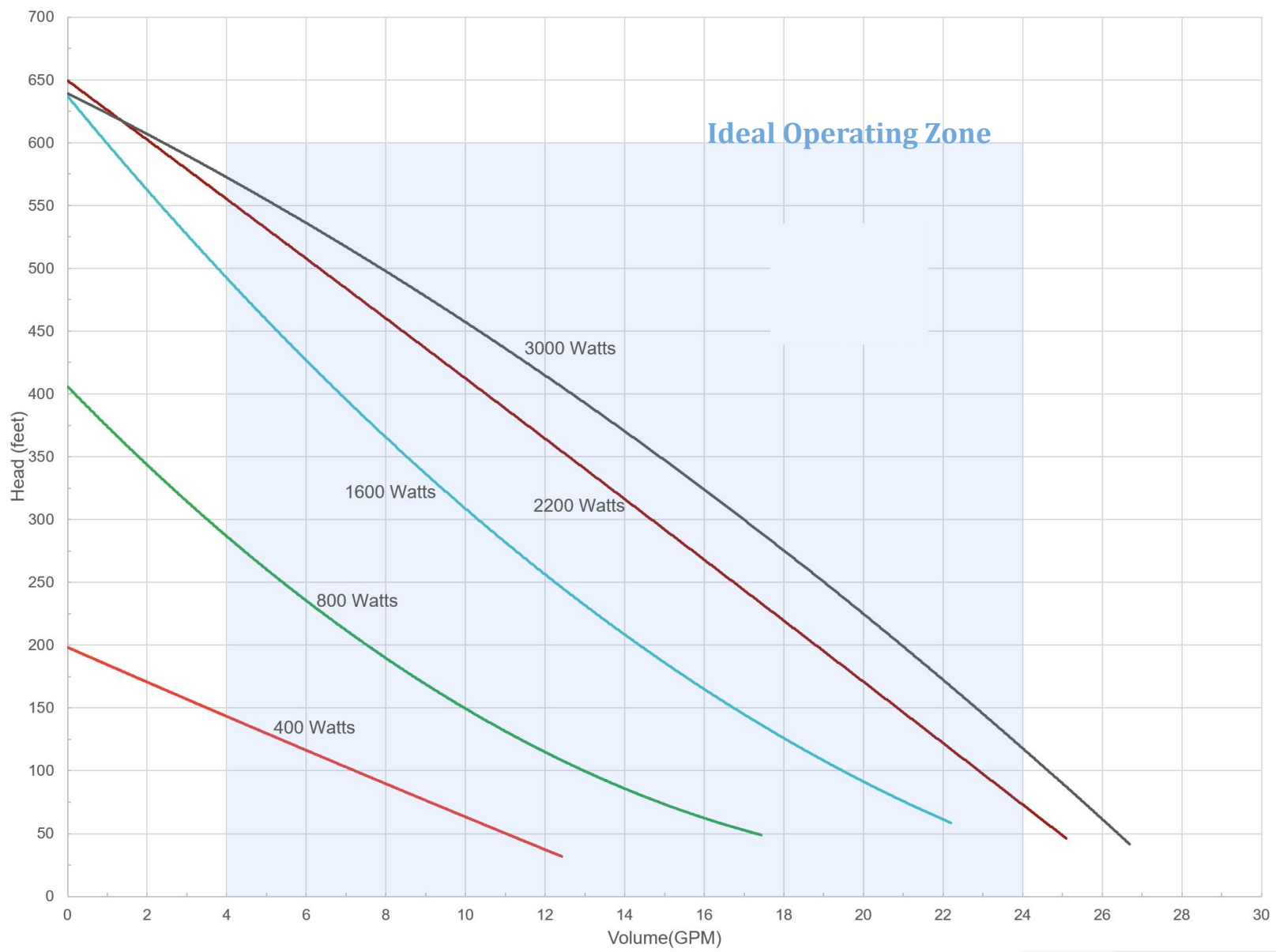
The W4C-65-280 is a high volume centrifugal solar pump with a 4" OD pump end to allow for a balance between pumping volume and pumping head. It is able to produce a maximum of 65 GPM and 280ft of pumping head. Featuring up to 3hp motor, it is ideal for irrigation projects, keeping ponds full and other applications where a large volume of water is required.

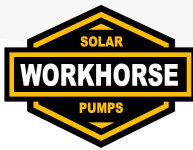




W4C-26-600 *VOLUME SERIES*

The W4C-26-600 is a medium volume centrifugal solar pump with a 4" OD pump end to allow for operation at higher pumping head for those deeper wells, while maintaining impressive volume. It is able to produce a maximum of 26 GPM and 600ft of pumping head. Featuring up to 3hp motor, it is ideal for larger livestock projects, households and projects where the water is a bit deeper.





Deep Series

- Permanent Magnet DC brushless motor
- Helical Rotor positive displacement pump end
- DC or AC Wide Input Range
- Field Repairable Helical Mechanism
- Internal variable speed controller
- 304 Stainless Steel pump and motor
- Variable current & Over voltage protection
- Water-lubricated thrust bearings
- Water-filled encapsulated motor
- Soft start and soft stop to extend life
- Run-Dry protection
- Extremely reliable
- Laser welded stainless housing
- Comprehensive 2 Year Warranty

Models:

W4H-12-450
W4H-6-650
W4H-3-950

Input Voltage:

DC 60 – 360VDC
Max Voc 450V
AC 120 – 240VAC
50/60Hz

Current Range: 1.5 – 8A

Power Input Range:

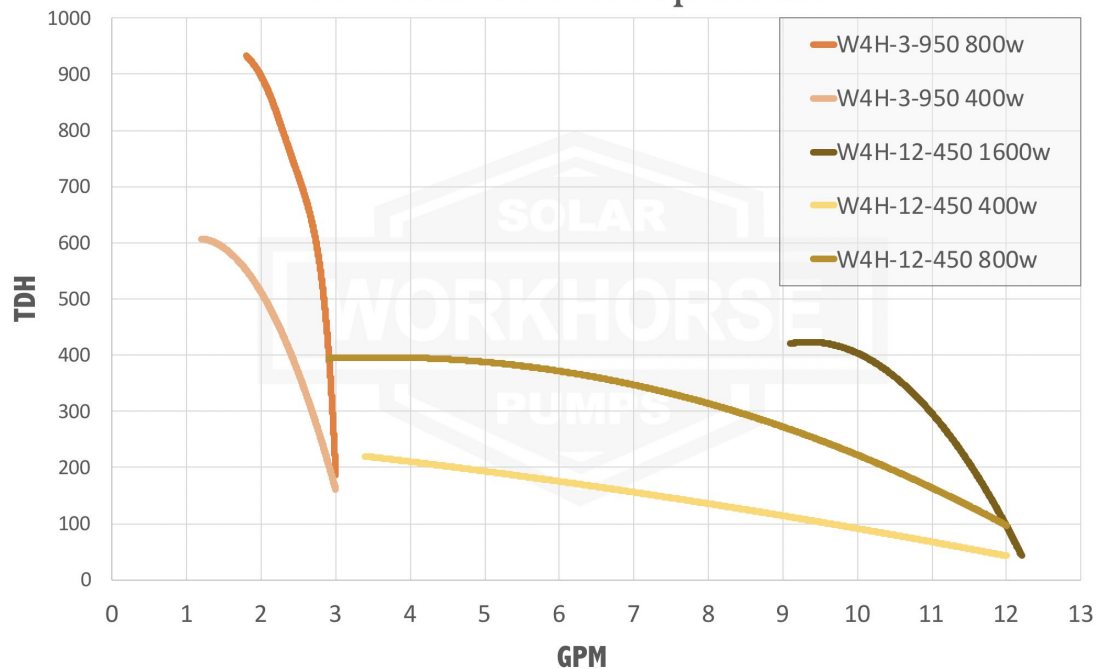
400w – 3000w

Speed Range: 500 –
4500RPM

Diameter: 4/5 Inch

Protection Class: IP 68

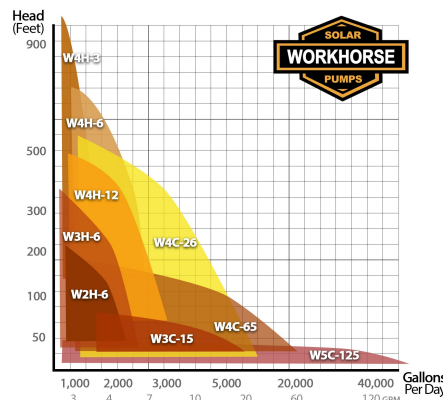
WORKHORSE Deep Series



Ideal Applications

Higher pumping head, Lower volume
Particle free deep well water pumping

Part of the USA
WORKHORSE
Family of
Solar-Powered
Water Pumps



VOLUME

Well Pumps

W4C-26-600
W4C-65-280
W5C-120-80
W6C-125-60

NARROW

Well Pumps

W2H-5-200
W3H-5-200
W3C-20-150

DEEP WELL

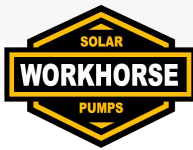
Helical Pumps

W4H-12-450
W4H-6-650
W4H-3-950

SURFACE

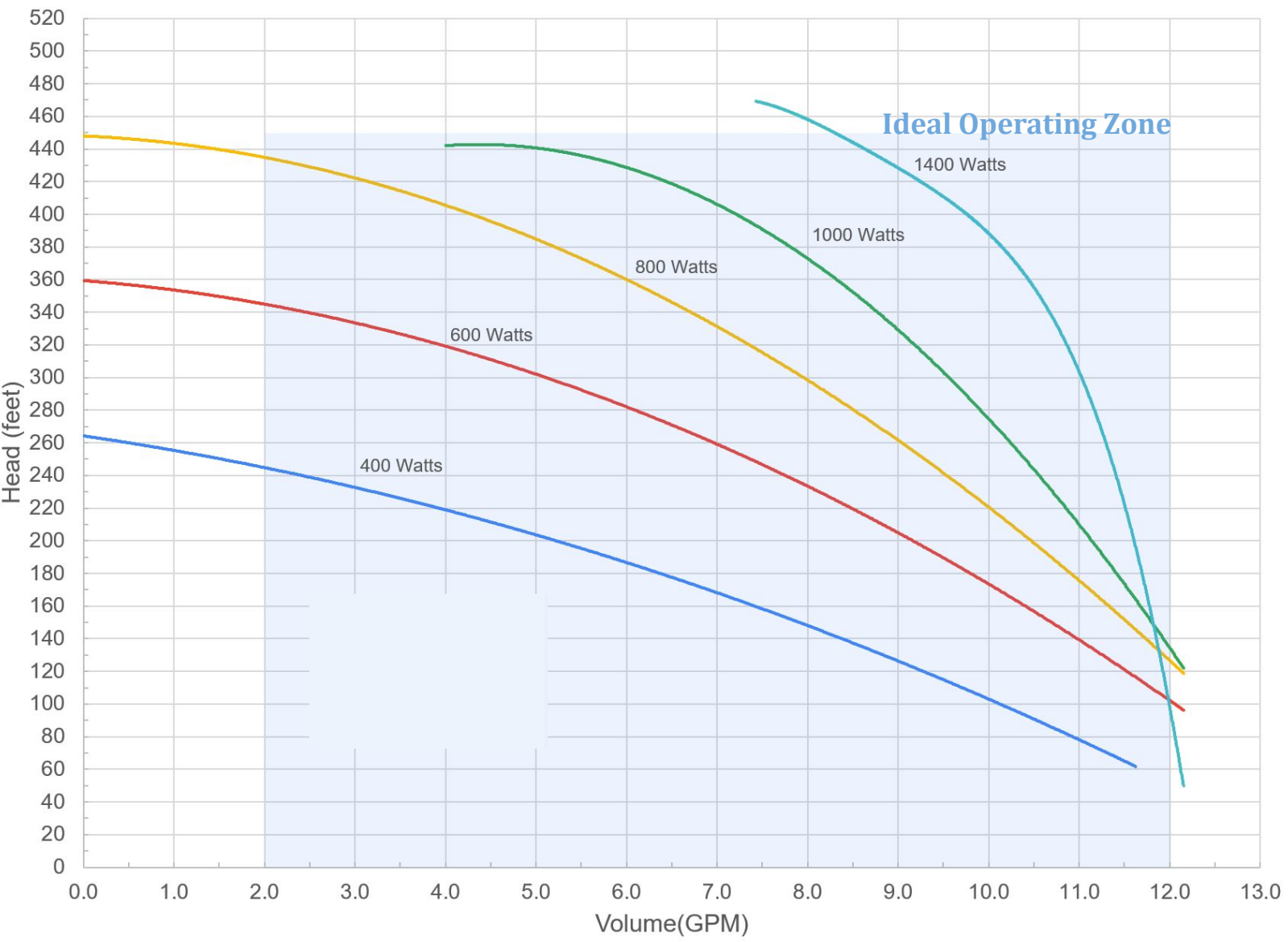
VFD Surface Pumps

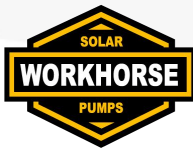
TP-750
TP-750 + 24B



W4H-12-450 *DEEP SERIES*

The W4H-12-450 is a medium volume helical solar pump with a 4" OD pump end to allow for operation at higher pumping head for those deeper wells, while maintaining impressive volume. It is able to produce a maximum of 12 GPM and 450ft of pumping head. Featuring up to 1.5hp motor, it is ideal for livestock projects, households and projects where the water is a bit deeper than a centrifugal pump can handle.





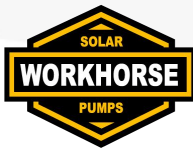
W4H-6-650

DEEP SERIES

The W4H-6-650 is a medium volume helical solar pump with a 4" OD pump end to allow for operation at higher pumping head for those deeper wells, while maintaining impressive volume. It is able to produce a maximum of 6 GPM and 650ft of pumping head. Featuring up to 1.5hp motor, it is ideal for livestock projects, households and projects where the water is a bit deeper than a centrifugal pump can handle.

Head	W4H-3-950 GPM 400w	W4H-3-950 GPM 800w	W4H-6-650 GPM 600w	W4H-6-650 GPM 800w	W4H-6-650 GPM 1200w
25	3	3	6	6	6
50	3	3	6	6	6
75	3	3	6	6	6
100	3	3	6	6	6
125	3	3	6	6	6
150	3	3	5.5	6	6
175	3	3	5.2	6	6
200	3	3	4.9	6	6
225	3	3	4.8	6	6
250	3	3	4.6	5.5	6
275	2.9	3	4.4	5.2	6
300	2.9	3	4.3	4.9	5.8
325	2.8	3	4.2	4.8	5.6
350	2.7	3	4	4.7	5.1
375	2.5	2.9	3.8	4.4	4.8
400	2.4	2.9	3.6	4.3	4.6
425	2.3	2.9	3.4	4.1	4.4
450	2.2	2.8	3.3	4	4.3
475	2.1	2.8	3.1	3.8	4.2
500	2	2.8		3.6	4
525	1.8	2.8		3.4	3.9
550	1.6	2.8		3.3	3.6
575	1.4	2.8		2.8	3.4
600	1.3	2.8			3.1
625	1.2	2.8			2.9
650	1	2.7			

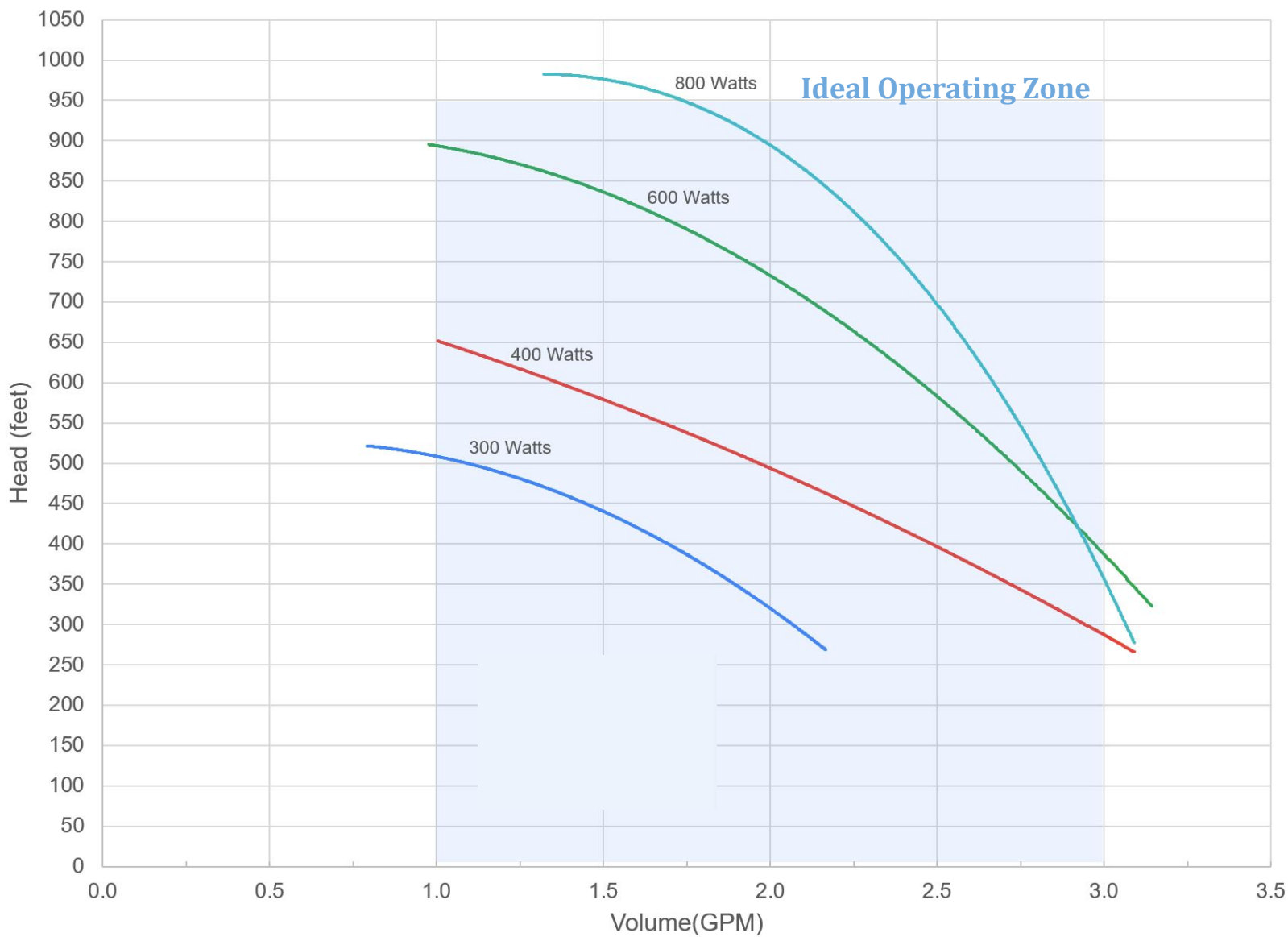




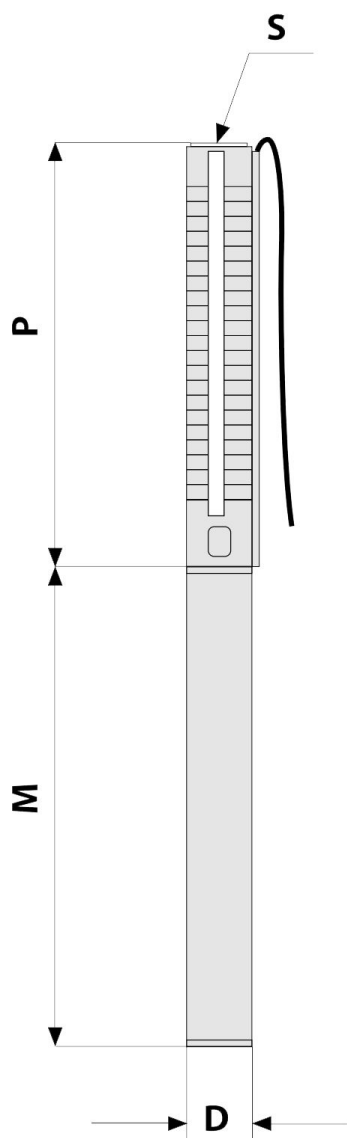
W4H-3-950

DEEP SERIES

The W4H-3-950 is a low volume helical solar pump with a 4" OD pump end to allow for operation at very high pumping head for those especially deep low producing wells. It is able to produce a maximum of 3 GPM and 950ft of pumping head. Featuring up to 1.5hp motor, it is ideal for larger deep livestock wells, households and projects where the water is a very deep.



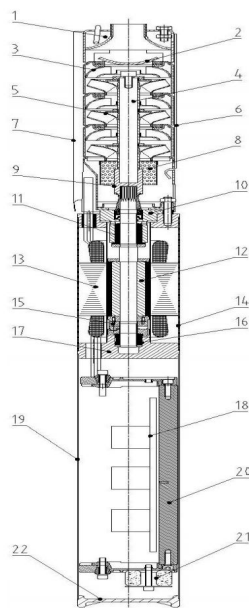
Pump Dimensions



	W5C-125-80	W4C-65-280	W4C-26-600	W4H-3-950	W4H-6-650	W4H-12-450
S	2" FNPT	2" FNPT	1.25" FNPT	1" FNPT	1.25" FNPT	1.25" FNPT
D	5"	4"	4"	4"	4"	4"
P	20 3/4"	14 3/8"	20 5/8"	29 1/4"	30 3/8"	30 3/8"
M	24 1/4"	24 1/4"	24 1/4"	24 1/4"	24 1/4"	24 1/4"
T	45"	38 5/8"	44 7/8"	53 1/2"	54 5/8"	54 5/8"
W	47 lbs	34 lbs	38 lbs	35 lbs	36 lbs	36 lbs

2" and 3" Diameter Pumps Available too.

- 1 Discharge chamber *Stainless steel*
- 2 Non-return valve *Stainless steel*
- 3 Guide vanes *PC/Stainless steel*
- 4 Pump Shaft *Stainless steel*
- 5 Impeller *POM/Stainless steel*
- 6 Impeller Fastener *Stainless steel*
- 7 Cable Cover *Stainless steel*
- 8 Pump Inlet *Stainless steel*
- 9 Shaft coupling *Stainless steel*
- 10 Upper Bearing Housing *Stainless*
- 11 Upper Bearing *Silicon Carbide*



- 12 Permanent Magnet Rotor
- 13 Motor Stator
- 14 Pump Housing *Stainless steel*
- 15 Thrust bearing *Graphite*
- 16 Lower Bearing *Silicon Carbide*
- 17 Lower Bearing Housing *Stainless*
- 18 Controller Housing *Stainless steel*
- 19 Controller Housing *Stainless steel*
- 20 Heatsink *Aluminium*
- 21 Inductor
- 22 Base *Stainless steel*

Other Specifications



Power Input	DC 60 – 360VDC Max Voc 450V AC 120 – 240VAC 50/60Hz
Run Time	AC: Unlimited Solar: 6-10 hours/day depending on location
Start/Stop	No Limit (soft start built in)
Liquid Characteristics	pH 5 to 9 Maximum temperature 100F Sand Content: <1g/m3 for helical, <50g/m3 for centrifugal
Certifications	CE, TUV
Speed Range	500 – 4500RPM
Diameters	4", 5"
Protection Class	IP 68

			Total Dynamic Head (ft)																	
Model	Watts Solar		16	32	49	64	98	128	160	192	262	328	394	459	525	591	656	787	919	TDH
W5C-125-80	400w		62	23																
5" Centrifugal	800w		96	65	33															
	1600w		129	108	82															
W4C-65-280	400w		30	26	18	10	4													
4" Centrifugal	800w		45	39	35	29	17	11												
	1600w		65	60	55	47	40	30	21	14	5									
W4C-26-600	400w		12	12	10	10	5	3												
4" Centrifugal	800w		20	19	14	13	12	11	10	7	4	2								
	1600w		28	24	23	22	19	18	17	15	12	9	7	5						
W4H-12-450	400w						10	8	7	6										
4" Helical	800w						15	14	12	11	9	7	4							
	1600w								16	15	11	11	10	8						
W4H-3-950	400w							3	3	3	3	3	3	2	2	1				
4" Helical	800w											3	3	3	3	3	3	2	1	

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workhorsepumps.com



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with Technical Questions

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support@workhorsepumps.com

