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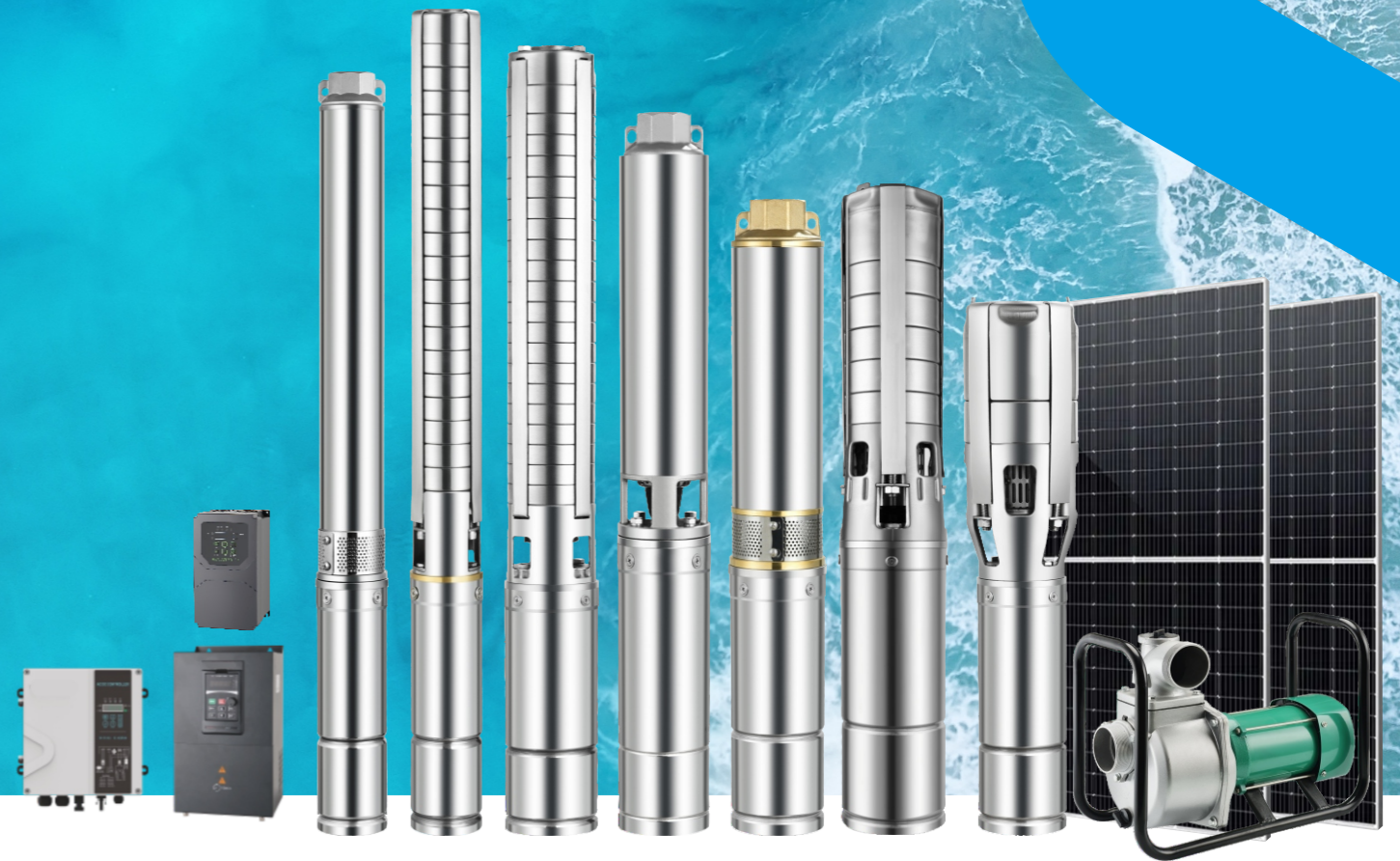
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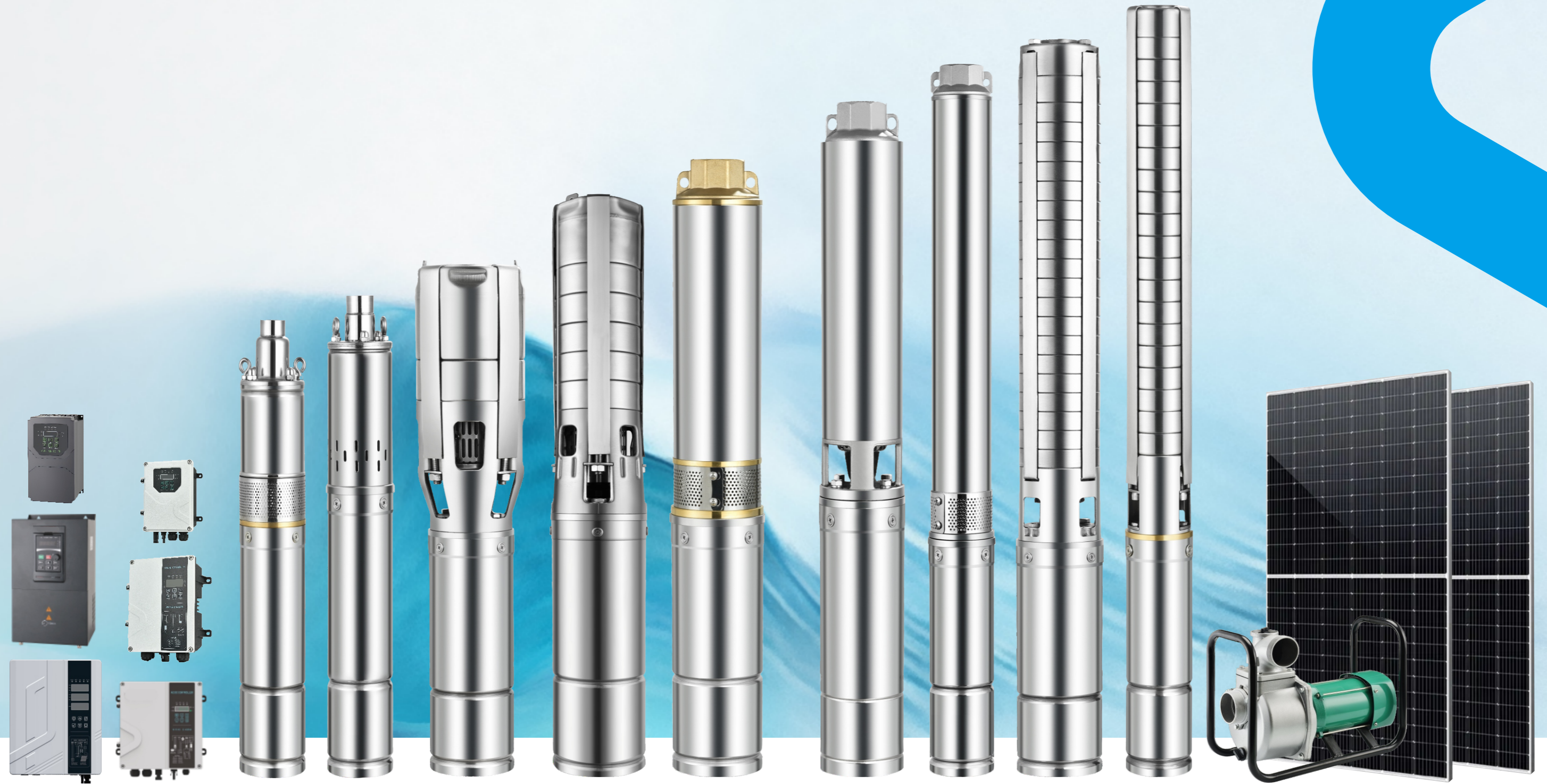
# SOLAR PUMP

PROFESSIONAL SOLAR PUMP  
MANUFACTURER

LEAN QUALITY **NEW**

Product catalog 2024







# Company Introduction

Established in 2021, Central Solar Supplies is committed to transforming the solar industry by becoming a total solutions provider and an integral extension of our clients' businesses. Our vision centers on delivering exceptional service and support, ensuring that our partners thrive in an evolving energy landscape.

We offer a comprehensive range of high-quality products, including solar panels, inverters, batteries, DC pumps, and all essential installation consumables. This diverse product lineup allows us to cater to the unique needs of each client, helping them achieve their solar energy goals with confidence.

With branches located in Gauteng and Cape Town, we proudly serve clients across South Africa, ensuring easy access to our products and services. At Central Solar Supplies, we believe in building lasting partnerships, empowering our clients with the tools and resources they need to succeed in a sustainable future. Join us on our mission to drive innovation and excellence in solar solutions!

## Transforming Industry

At Central Solar Supplies we are committed to bring our client's the competitive edge through quality products and service delivery.



# Product Catalog

Professional Solar Pumps



## AC/DC Solar Pumps

### CS-3AC/DCP(A/H/M)

PLASTIC IMPELLER SOLAR WATER PUMP  
P03-04

### CS-3AC/DCS(A/H/M)

STAINLESS STEEL SOLAR WATER PUMP  
P05-06

### CS-4AC/DCP(A/H/M)

PLASTIC IMPELLER SOLAR WATER PUMP  
P07-08

### CS-4AC/DCS(A/H/M)

STAINLESS STEEL SOLAR WATER PUMP  
P09-10

### CS-4/6AC/DCS(A/H/M)

STAINLESS STEEL SOLAR WATER PUMP  
P11-12

### CS-4AC/DCP-A(3KW-7.5KW)

PLASTIC IMPELLER SOLAR WATER PUMP  
P13-14

### CS-4AC/DCS-A(3KW-7.5KW)

STAINLESS STEEL SOLAR WATER PUMP  
P15-16

### CS-4/6AC/DCS-A(3KW-7.5KW)

STAINLESS STEEL SOLAR WATER PUMP  
P17-18

### CS-6AC/DCS-A(5.5KW-22KW)

STAINLESS STEEL SOLAR WATER PUMP  
P19-20

## DC Solar Pumps

### CS-2DCP

SY 2" DC PLASTIC IMPELLER  
P23-24

### CS-3DC-S

SCREW SOLAR WATER PUMP  
P25-26

### CS-3DCP

PLASTIC IMPELLER SOLAR WATER PUMP  
P27-28

### CS-3DCS

STAINLESS STEEL IMPELLER  
SOLAR WATER PUMP  
P29-30

### CS-4DCP

PLASTIC IMPELLER SOLAR WATER PUMP  
P31-32

### CS-4DCS

STAINLESS STEEL IMPELLER  
SOLAR WATER PUMP  
P33-34

## DC Solar Ground Pumps

### CS-DHF

DC SOLAR GROUND PUMP  
P35-36

### CS-DQB

DC SOLAR GROUND PUMP  
P37

### CS-DZB

DC SOLAR GROUND PUMP  
P38

### CS-DJET

DC SOLAR GROUND PUMP  
P39

### CS-DLP

SWIMMING POOL PUMP  
P40

## DC Built In Controller Pump

### 3SYBL-IN BUILT

PLASTIC IMPELLER SOLAR WATER PUMP  
CONTROLLER BUILT-INSIDE  
P41-42

### 3SYSSI

STAINLESS STEEL IMPELLER SOLAR WATER PUMP  
CONTROLLER BUILT-INSIDE  
P43

### 3SYBS

SCREW SOLAR WATER PUMP  
CONTROLLER BUILT-INSIDE  
P44

### 4SYBI

PLASTIC IMPELLER SOLAR WATER PUMP  
CONTROLLER BUILT-INSIDE  
P45-46

### 4SYSSI

STAINLESS STEEL IMPELLER SOLAR WATER PUMP  
CONTROLLER BUILT-INSIDE  
P47-48

## Other pumps

### CSBL

DC SOLAR PUMP BRUSHLESS TYPE  
P49

### CSDC

DC SOLAR PUMP BRUSH TYPE  
P50

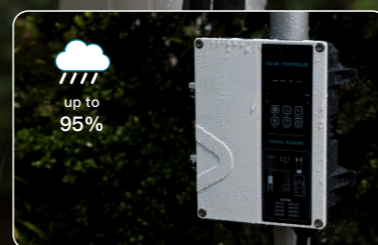
# AC/DC SOLAR PUMP

Professional Solar Pumps

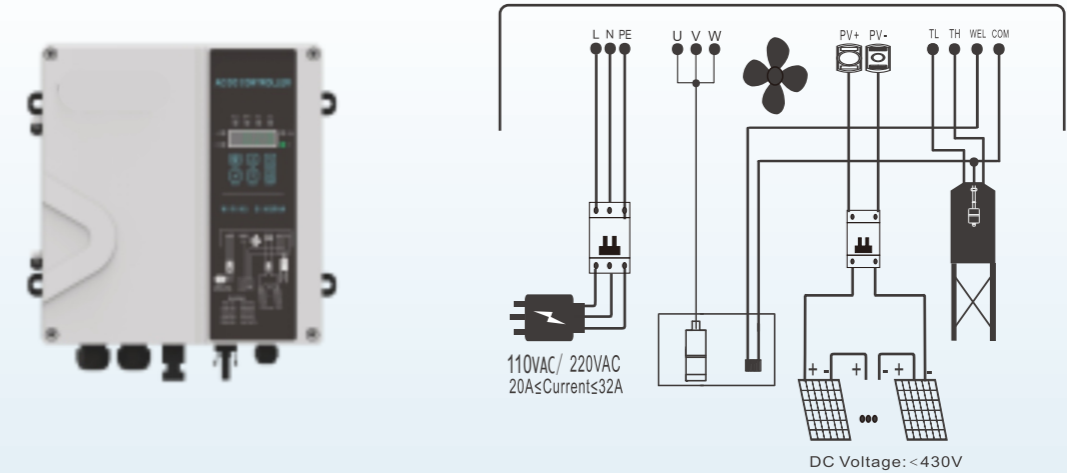


## Remote Management

- AC/DC
- Maximum Power Point Tracking
- Ingress Protection 65
- light-emitting diode
- All Aluminum Heat Dissipation
- Fault Wiring Protection  
Overvoltage Protection  
Short Circuit Protection
- Fault code alarm
- 4G Internet of Things
- Real Time Mobile Monitoring
- Intelligent Energy-saving
- Wide voltage



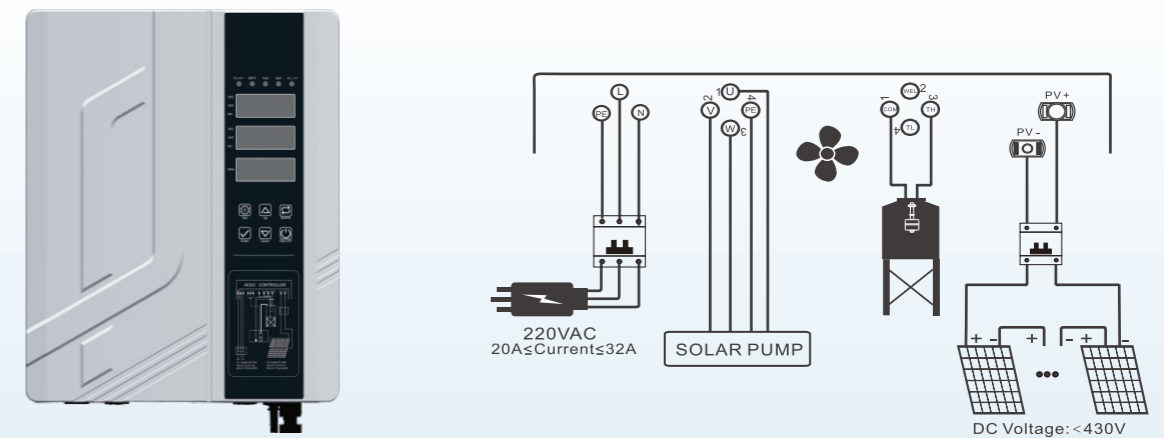
### AC/DC AUTOMATIC SWITCHING CONTROLLER WORKING ENVIRONMENT AND ELECTRICAL PROPERTY



Controller and Pump Matching Method

Controller Model	Adaptable Pump	DC Max. Input Current (A)	AC Max. Input Current (A)	DC Input Voltage (V)	AC Input Voltage (V)	Working Temperature (°C)
1 CS-AC220V/DC110V	Rated AC220V/DC110V Pump	12	20	108-430	100-264	-15-60
2 CS-AC220V/DC144V	Rated AC220V/DC144V Pump	12	20	108-430	100-264	-15-60
3 CS-AC220V/DC192V	Rated AC220V/DC192V Pump	12	20	108-430	100-264	-15-60
4 CS-AC220V/DC280V	Rated AC220V/DC280V Pump	12	20	108-430	100-264	-15-60

### AC/DC HYBRID COMPLEMENTARITY CONTROLLER WORKING ENVIRONMENT AND ELECTRICAL PROPERTY



Controller and Pump Matching Method

Controller Model	Adaptable Pump	DC Max. Input Current (A)	AC Max. Input Current (A)	DC Input Voltage (V)	AC Input Voltage (V)	Working Temperature (°C)
1 CS-AC220V/DC110V	Rated AC220V/DC110V Pump	12	15	80-430	150-264	-15-60
2 CS-AC220V/DC144V	Rated AC220V/DC144V Pump	12	15	80-430	150-264	-15-60
3 CS-AC220V/DC192V	Rated AC220V/DC192V Pump	12	15	80-430	150-264	-15-60
4 CS-AC220V/DC280V	Rated AC220V/DC280V Pump	12	15	80-430	150-264	-15-60

# CS-3AC/DCP(A/H/M)

PLASTIC IMPELLER SOLAR WATER PUMP

## COMPLIMENTARY ACCESSORIES



## PRODUCT FEATURES

AC/DC

AC/DC AUTOMATIC SWITCHING  
AC/DC HYBRID COMPLEMENTARITY

4G

4G INTERNET OF THINGS



INTEGRATED DSP & MPPT(MAXIMUM  
POWER POINT REMOTE CONTROL ETC.



OVERLOAD AND HIGH ADJUSTABLE  
SPEED CONTROL OF MOTOR



SUITABLE FOR WIDE  
DC VOLTAGE OPERATION



THE EFFICIENCY  
IS IMPROVED BY 25%



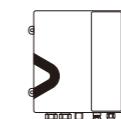
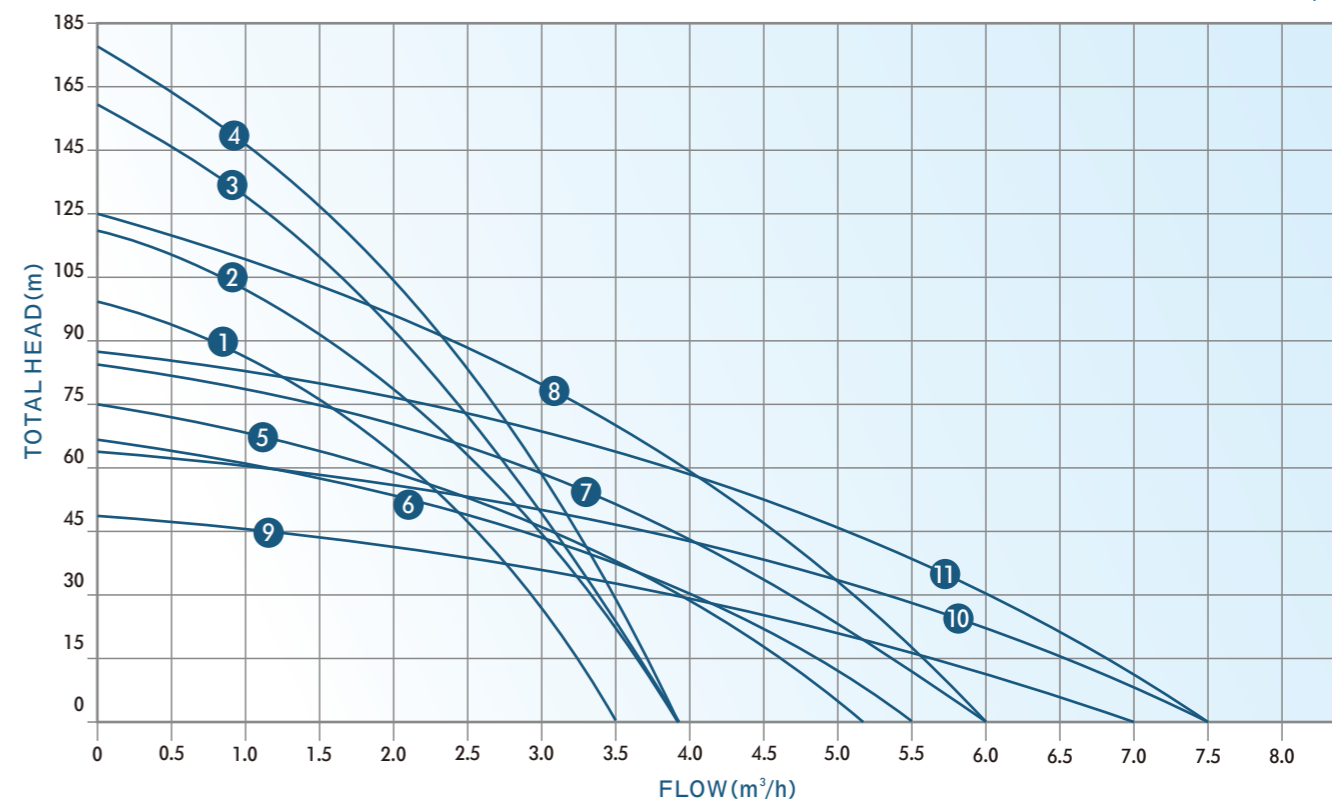
INGRESS PROTECTION 65



TEMPERATURE PROTECTION AND  
AGAINST REVERSE POLARITY

## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



**H** AC/AC/DC HYBRID COMPLEMENTARITY CONTROLLER  
**A** AC/AC/DC AUTOMATIC SWITCHING CONTROLLER  
**M** MANUAL CONTROLLER

## TECHNICAL DATA

Model	Pump Voltage (AC)	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
							Power	Quantity (pcs)	Power (W)	Connection
1 CS-3AC/DCP3.5-95-110-750(A/H/M)	85V-280V	108V-430V	750W	3.5	95	1.25"	< 430V	3	340	
2 CS-3AC/DCP3.8-123-150-1100(A/H/M)	85V-280V	108V-430V	1100W	3.8	123	1.25"	430V	4	340	
3 CS-3AC/DCP3.8-155-150-1300(A/H/M)	85V-280V	108V-430V	1300W	3.8	155	1.25"	430V	5	340	
4 CS-3AC/DCP3.8-180-200-1500(A/H/M)	85V-280V	108V-430V	1500W	3.8	180	1.25"	430V	6	340	
5 CS-3AC/DCP5.2-75-110-750(A/H/M)	85V-280V	108V-430V	750W	5.2	75	1.25"	430V	3	340	
6 CS-3AC/DCP5.5-65-110-750(A/H/M)	85V-280V	108V-430V	750W	5.5	65	1.25"	430V	3	340	
7 CS-3AC/DCP6-84-150-1100(A/H/M)	85V-280V	108V-430V	1100W	6	84	1.25"	430V	4	340	
8 CS-3AC/DCP6-125-200-1500(A/H/M)	85V-280V	108V-430V	1500W	6	125	1.25"	430V	6	340	
9 CS-3AC/DCP7-46-110-750(A/H/M)	85V-280V	108V-430V	750W	7	46	1.25"	430V	3	340	
10 CS-3AC/DCP7.5-62-150-1100(A/H/M)	85V-280V	108V-430V	1100W	7.5	62	1.25"	430V	4	340	
11 CS-3AC/DCP7.5-78-200-1500(A/H/M)	85V-280V	108V-430V	1500W	7.5	78	1.25"	430V	6	340	

# CS-3AC/DCS(A/H/M)

STAINLESS STEEL SOLAR WATER PUMP

## COMPLIMENTARY ACCESSORIES



## PRODUCT FEATURES

AC/DC

AC/DC AUTOMATIC SWITCHING  
AC/DC HYBRID COMPLEMENTARITY

4G

4G INTERNET OF THINGS



INTEGRATED DSP & MPPT(MAXIMUM  
POWER POINT REMOTE CONTROL ETC.



OVERLOAD AND HIGH ADJUSTABLE  
SPEED CONTROL OF MOTOR



SUITABLE FOR WIDE  
DC VOLTAGE OPERATION



THE EFFICIENCY  
IS IMPROVED BY 25%



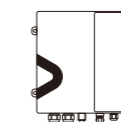
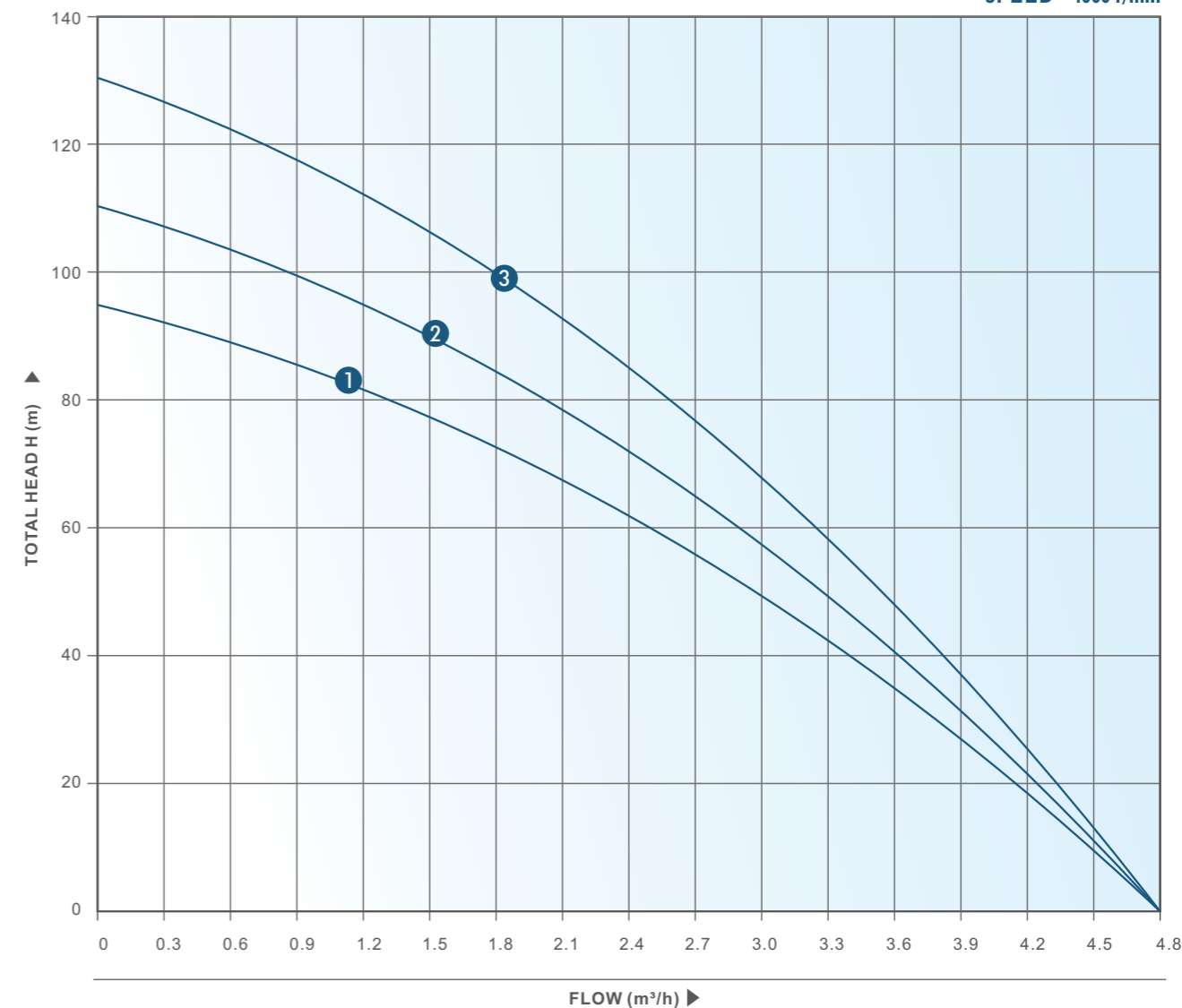
INGRESS PROTECTION 65



TEMPERATURE PROTECTION AND  
AGAINST REVERSE POLARITY

## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



- [H] AC/AC/DC HYBRID COMPLEMENTARITY CONTROLLER
- [A] AC/AC/DC AUTOMATIC SWITCHING CONTROLLER
- [M] MANUAL CONTROLLER

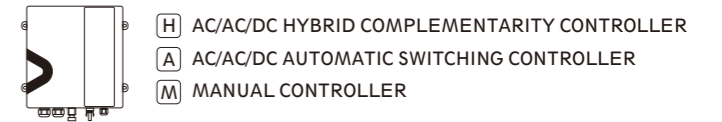
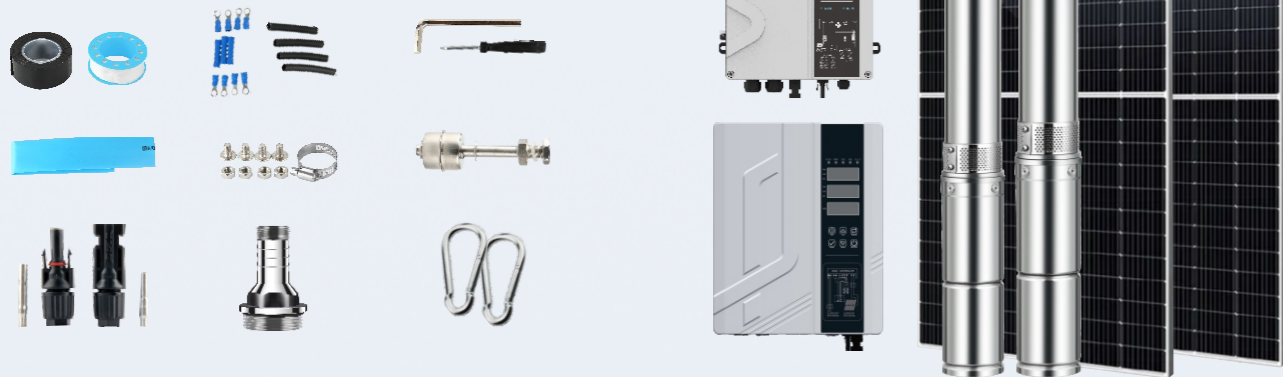
## TECHNICAL DATA

Model	Pump Voltage (AC)	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
							Power	Quantity (pcs)	Power (W)	Connection
1 CS-3AC/DCS4.8-95-110-750(A/H/M)	85V-280V	108V-430V	750W	4.8	95	1.25"	< 430V	3	340	
2 CS-3AC/DCS4.8-110-150-1100(A/H/M)	85V-280V	108V-430V	1100W	4.8	110	1.25"	430V	4	340	
3 CS-3AC/DCS4.8-130-200-1500(A/H/M)	85V-280V	108V-430V	1500W	4.8	130	1.25"	430V	6	340	

# CS-4AC/DCP(A/H/M)

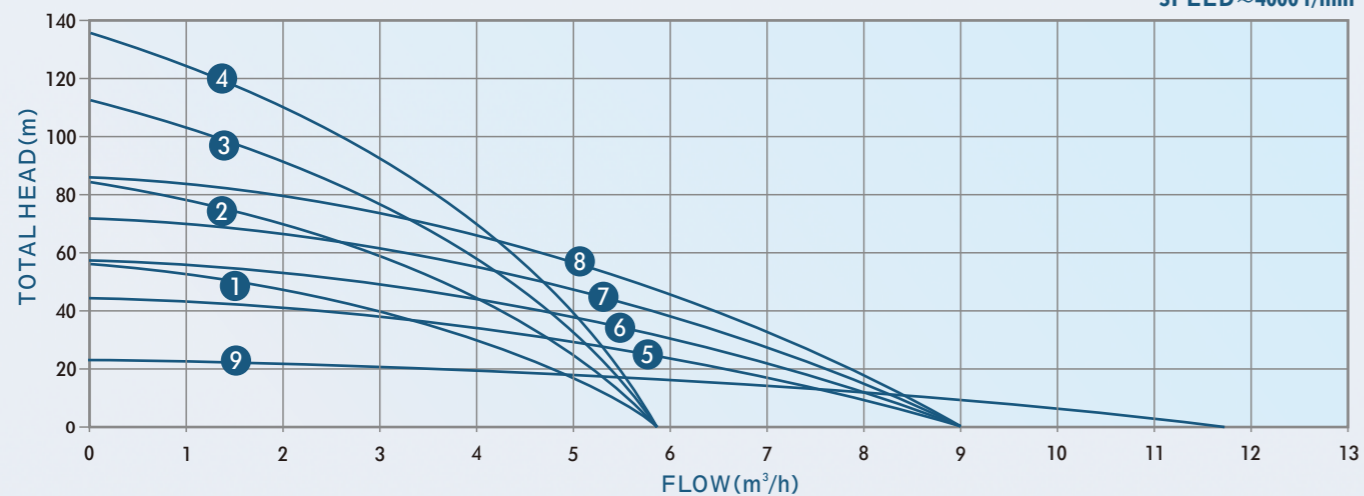
PLASTIC IMPELLER SOLAR WATER PUMP

## COMPLIMENTARY ACCESSORIES



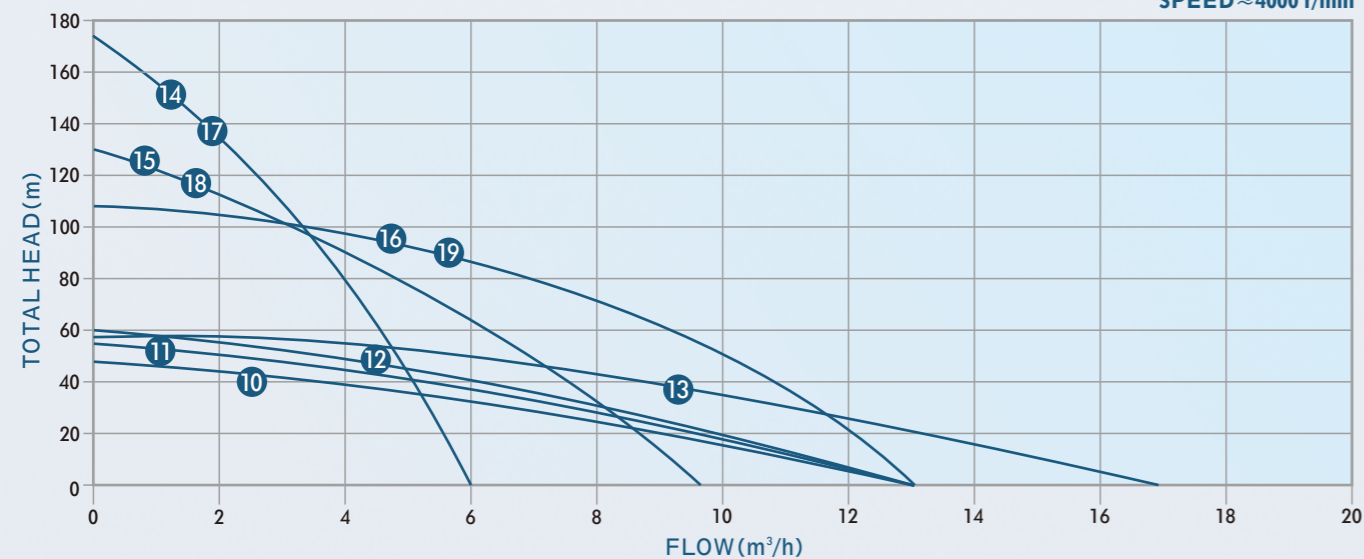
## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



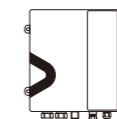
## TECHNICAL DATA

Model	Pump Voltage (AC)	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
							Power	Quantity (pcs)	Power (W)	Connection
1 CS-4AC/DCP6-56-110-750(A/H/M)	85V-280V	108V-430V	750W	6	56	1.25"	< 430V	3	340	
2 CS-4AC/DCP6-84-150-1100(A/H/M)	85V-280V	108V-430V	1100W	6	84	1.25"	430V	4	340	
3 CS-4AC/DCP6-112-150-1300(A/H/M)	85V-280V	108V-430V	1300W	6	112	1.25"	430V	5	340	
4 CS-4AC/DCP6-135-200-1500(A/H/M)	85V-280V	108V-430V	1500W	6	135	1.25"	430V	6	340	
5 CS-4AC/DCP9-45-110-750(A/H/M)	85V-280V	108V-430V	750W	9	45	2"	430V	3	340	
6 CS-4AC/DCP9-58-150-1100(A/H/M)	85V-280V	108V-430V	1100W	9	58	2"	430V	4	340	
7 CS-4AC/DCP9-71-150-1300(A/H/M)	85V-280V	108V-430V	1300W	9	71	2"	430V	5	340	
8 CS-4AC/DCP9-85-200-1500(A/H/M)	85V-280V	108V-430V	1500W	9	85	2"	430V	6	340	
9 CS-4AC/DCP13-36-110-750(A/H/M)	85V-280V	108V-430V	750W	13	36	2"	430V	3	340	
10 CS-4AC/DCP13-49-150-1100(A/H/M)	85V-280V	108V-430V	1100W	13	49	2"	430V	4	340	
11 CS-4AC/DCP13-54-150-1300(A/H/M)	85V-280V	108V-430V	1300W	13	54	2"	430V	5	340	
12 CS-4AC/DCP13-60-200-1500(A/H/M)	85V-280V	108V-430V	1500W	13	60	2"	430V	6	340	
13 CS-4AC/DCP17-48-200-1500(A/H/M)	85V-280V	108V-430V	1500W	17	48	2"	430V	6	340	
14 CS-4AC/DCP6-175-300-2200(A/H/M)	85V-280V	108V-430V	2200W	6	175	1.25"	430V	8	340	
15 CS-4AC/DCP9.5-125-300-2200(A/H/M)	85V-280V	108V-430V	2200W	9.5	125	2"	430V	8	340	
16 CS-4AC/DCP13-110-300-2200(A/H/M)	85V-280V	108V-430V	2200W	13	110	2"	430V	8	340	
17 CS-4AC/DCP6-175-300-2200(A/H/M)	85V-280V	108V-430V	2200W	6	175	1.25"	430V	8	340	
18 CS-4AC/DCP9.5-125-300-2200(A/H/M)	85V-280V	108V-430V	2200W	9.5	125	2"	430V	8	340	
19 CS-4AC/DCP13-110-300-2200(A/H/M)	85V-280V	108V-430V	2200W	13	110	2"	430V	8	340	

# CS-4AC/DCS(A/H/M)

STAINLESS STEEL SOLAR WATER PUMP

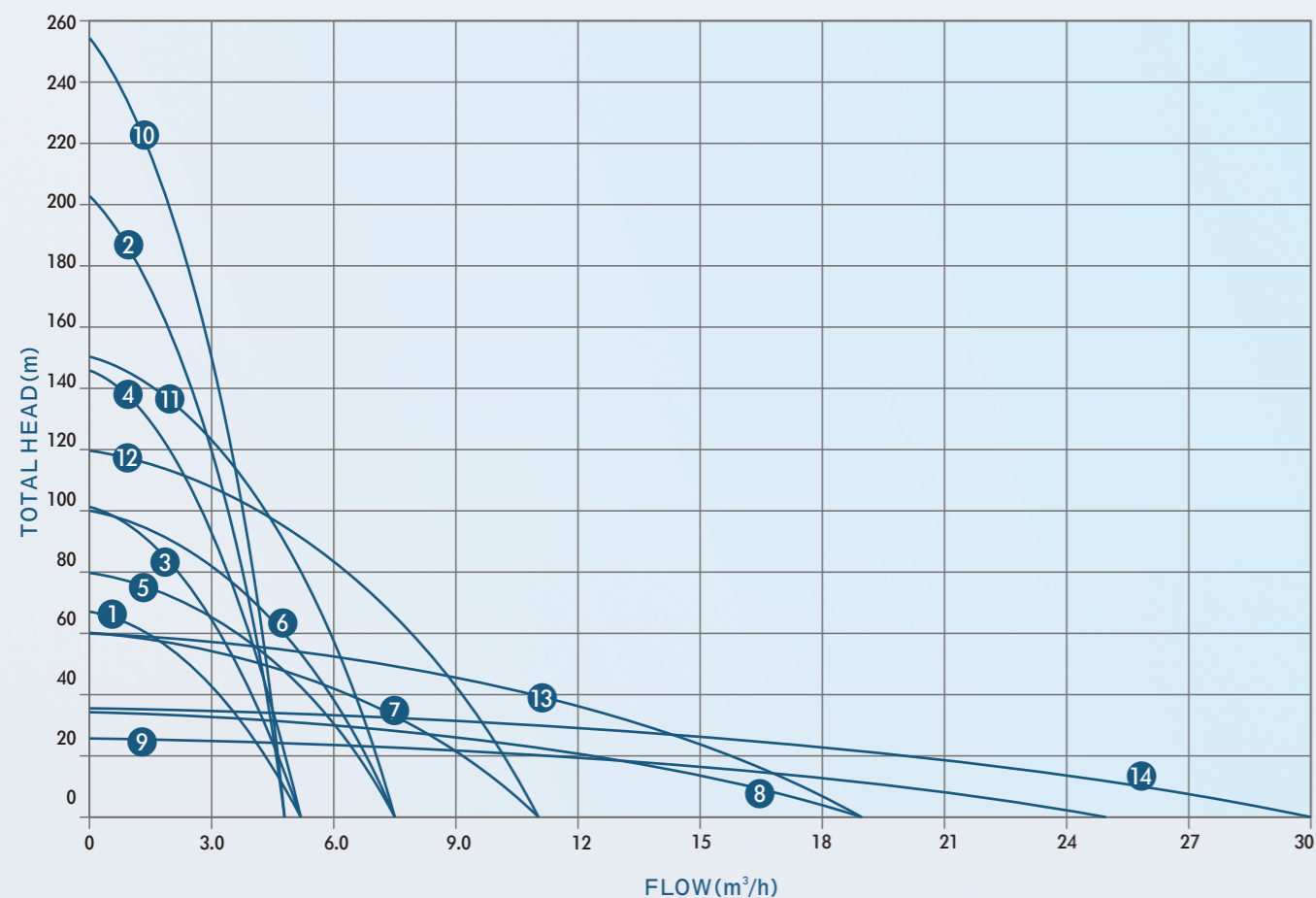
## COMPLIMENTARY ACCESSORIES



- H** AC/AC/DC HYBRID COMPLEMENTARITY CONTROLLER
- A** AC/AC/DC AUTOMATIC SWITCHING CONTROLLER
- M** MANUAL CONTROLLER

## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



## TECHNICAL DATA

Model	Pump Voltage (AC)	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
							Power	Quantity (pcs)	Power (W)	Connection
1 CS-4AC/DCS5.2-67-110-750(A/H/M)	85V-280V	108V-430V	750W	5.2	67	1.25"	< 430V	3	340	
2 CS-4AC/DCS4.8-203-200-1500(A/H/M)	85V-280V	108V-430V	1500W	4.8	203	1.25"	430V	6	340	
3 CS-4AC/DCS5.2-101-150-1100(A/H/M)	85V-280V	108V-430V	1100W	5.2	101	1.25"	430V	4	340	
4 CS-4AC/DCS5.2-146-200-1300(A/H/M)	85V-280V	108V-430V	1300W	5.2	146	1.25"	430V	5	340	
5 CS-4AC/DCS7.5-80-150-1300(A/H/M)	85V-280V	108V-430V	1300W	7.5	80	1.25"	430V	5	340	
6 CS-4AC/DCS7.5-100-200-1500(A/H/M)	85V-280V	108V-430V	1500W	7.5	100	1.25"	430V	6	340	
7 CS-4AC/DCS11-60-200-1500(A/H/M)	85V-280V	108V-430V	1500W	11	60	2"	430V	6	340	
8 CS-4AC/DCS19-35-200-1500(A/H/M)	85V-280V	108V-430V	1500W	19	35	2"	430V	6	340	
9 CS-4AC/DCS25-26-200-1500(A/H/M)	85V-280V	108V-430V	1500W	25	26	2"	430V	6	340	
10 CS-4AC/DCS5.2-255-300-2200(A/H/M)	85V-280V	108V-430V	2200W	5.2	255	1.25"	430V	8	340	
11 CS-4AC/DCS7.5-150-300-2200(A/H/M)	85V-280V	108V-430V	2200W	7.5	150	1.25"	430V	8	340	
12 CS-4AC/DCS11-120-300-2200(A/H/M)	85V-280V	108V-430V	2200W	11	120	2"	430V	8	340	
13 CS-4AC/DCS19-60-300-2200(A/H/M)	85V-280V	108V-430V	2200W	19	60	2"	430V	8	340	
14 CS-4AC/DCS30-36-300-2200(A/H/M)	85V-280V	108V-430V	2200W	30	36	2"	430V	8	340	

# CS-4/6AC/DCS(A/H/M)

STAINLESS STEEL SOLAR WATER PUMP

## COMPLIMENTARY ACCESSORIES



## PRODUCT FEATURES

AC/DC

AC/DC AUTOMATIC SWITCHING  
AC/DC HYBRID COMPLEMENTARITY

4G

4G INTERNET OF THINGS



INTEGRATED DSP & MPPT(MAXIMUM  
POWER POINT REMOTE CONTROL ETC.



OVERLOAD AND HIGH ADJUSTABLE  
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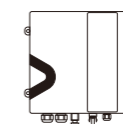
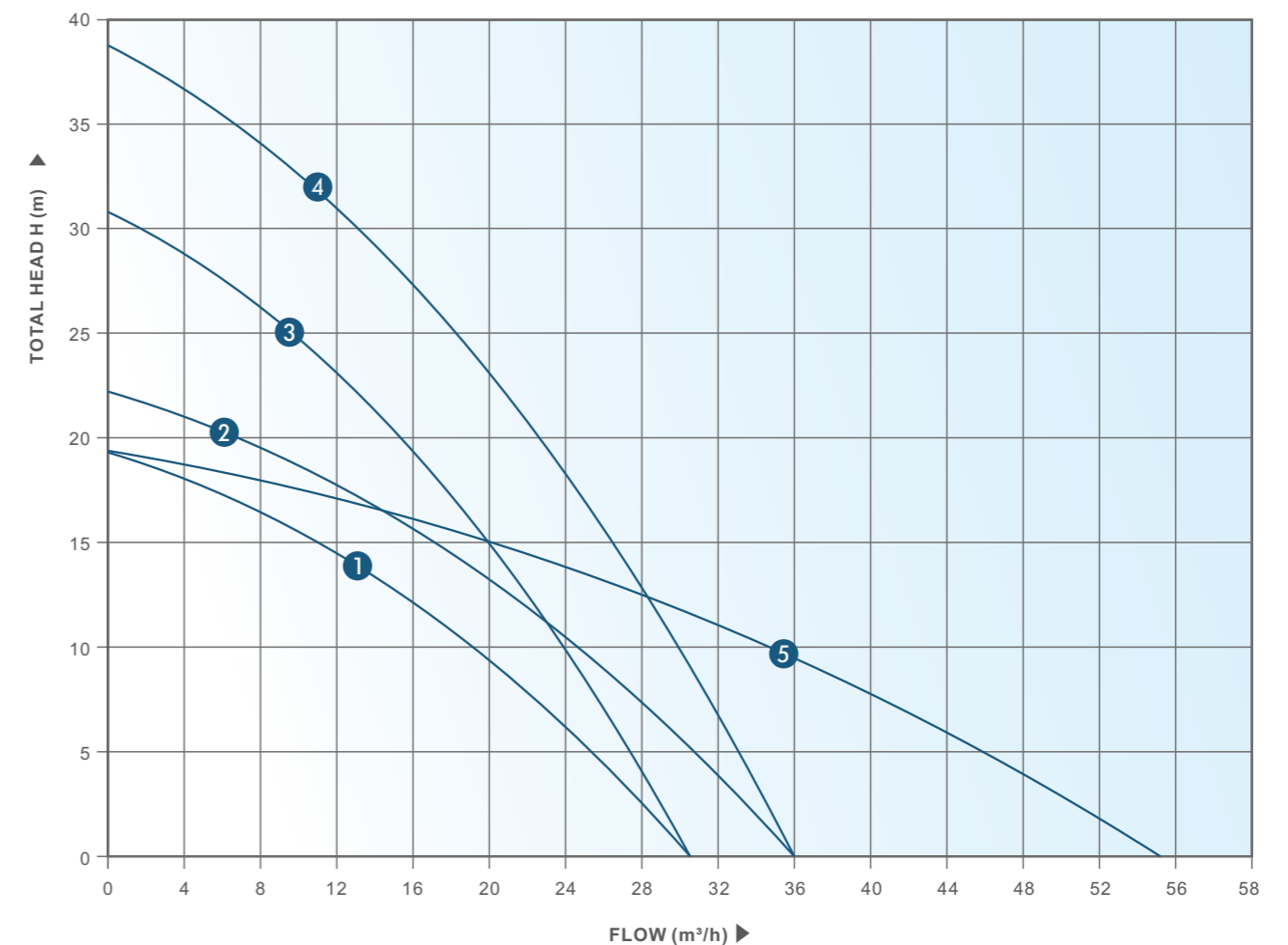
INGRESS PROTECTION 65



TEMPERATURE PROTECTION AND  
AGAINST REVERSE POLARITY

## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



[H] AC/AC/DC HYBRID COMPLEMENTARITY CONTROLLER  
[A] AC/AC/DC AUTOMATIC SWITCHING CONTROLLER  
[M] MANUAL CONTROLLER

## TECHNICAL DATA

Model	Pump Voltage (AC)	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
							Power	Quantity (pcs)	Power (W)	Connection
1 CS-4/6AC/DCS30-19-150-1100(A/H/M)	85V-280V	108V-430V	1100W	30	19	3"	< 430V	4	340	
2 CS-4/6AC/DCS36-22-200-1500(A/H/M)	85V-280V	108V-430V	1500W	36	22	3"	430V	6	340	
3 CS-4/6AC/DCS30-31-200-1500(A/H/M)	85V-280V	108V-430V	1500W	30	31	3"	430V	6	340	
4 CS-4/6AC/DCS36-38-300-2200(A/H/M)	85V-280V	108V-430V	2200W	36	38	3"	430V	8	340	
5 CS-4/6AC/DCS55-18-300-2200(A/H/M)	85V-280V	108V-430V	2200W	55	18	3"	430V	8	340	

# CS-4AC/DCP-A(3KW-7.5KW)

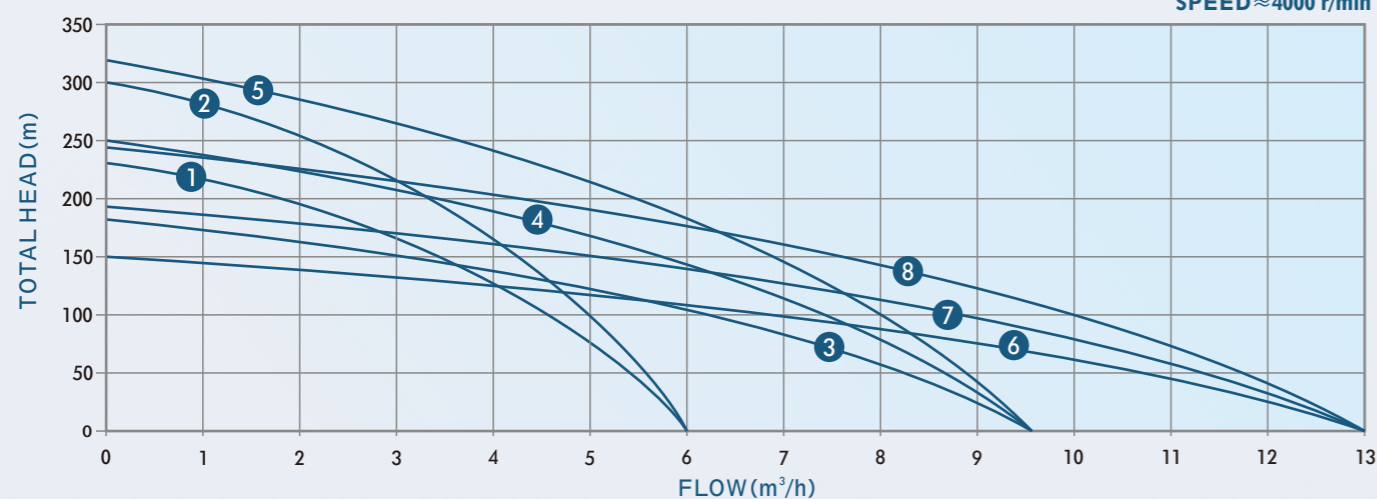
PLASTIC IMPELLER SOLAR WATER PUMP

## COMPLIMENTARY ACCESSORIES



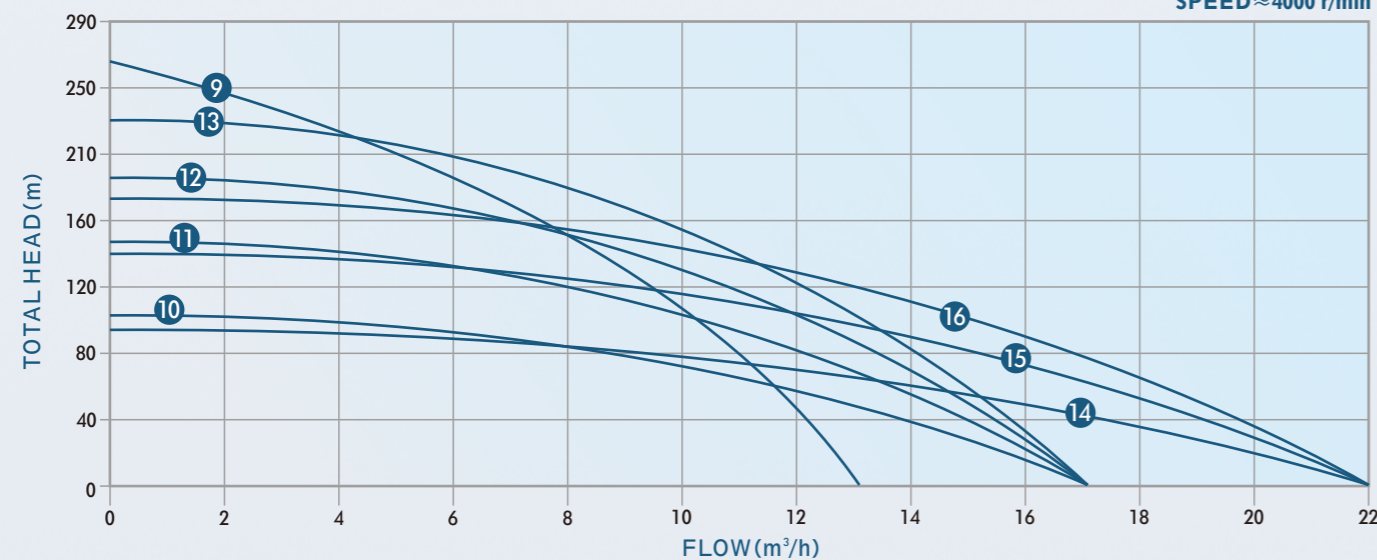
## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



## TECHNICAL DATA

Model	Pump Voltage (AC)	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Solar Panels Suggestion (≥1.3*PUMP POWER)	
							Open circuit voltage (VOC)	Power (W)
1 CS-4AC/DCP6-230-380/300-3000-A	175V-455V	300V-800V	3KW/4HP	6	230	1.25"	< 850V	≥1.3*PUMP POWER
2 CS-4AC/DCP6-300-380/400-4000-A	175V-455V	300V-800V	4KW/5.5HP	6	300	1.25"	850V	≥1.3*PUMP POWER
3 CS-4AC/DCP9.5-195-380/300-3000-A	175V-455V	300V-800V	3KW/4HP	9.5	195	2"	850V	≥1.3*PUMP POWER
4 CS-4AC/DCP9.5-250-380/400-4000-A	175V-455V	300V-800V	4KW/5.5HP	9.5	250	2"	850V	≥1.3*PUMP POWER
5 CS-4AC/DCP9.5-325-380/550-5500-A	175V-455V	300V-800V	5.5KW/7.5HP	9.5	325	2"	850V	≥1.3*PUMP POWER
6 CS-4AC/DCP13-150-380/300-3000-A	175V-455V	300V-800V	3KW/4HP	13	150	2"	850V	≥1.3*PUMP POWER
7 CS-4AC/DCP13-190-380/400-4000-A	175V-455V	300V-800V	4KW/5.5HP	13	190	2"	850V	≥1.3*PUMP POWER
8 CS-4AC/DCP13-240-380/550-5500-A	175V-455V	300V-800V	5.5KW/7.5HP	13	240	2"	850V	≥1.3*PUMP POWER
9 CS-4AC/DCP13-270-380/550-7500-A	175V-455V	300V-800V	7.5KW/10HP	13	270	2"	850V	≥1.3*PUMP POWER
10 CS-4AC/DCP17-110-380/300-3000-A	175V-455V	300V-800V	3KW/4HP	17	110	2"	850V	≥1.3*PUMP POWER
11 CS-4AC/DCP17-150-380/400-4000-A	175V-455V	300V-800V	4KW/5.5HP	17	150	2"	850V	≥1.3*PUMP POWER
12 CS-4AC/DCP17-175-380/550-5500-A	175V-455V	300V-800V	5.5KW/7.5HP	17	175	2"	850V	≥1.3*PUMP POWER
13 CS-4AC/DCP17-220-380/550-7500-A	175V-455V	300V-800V	7.5KW/10HP	17	220	2"	850V	≥1.3*PUMP POWER
14 CS-4AC/DCP22-98-380/400-4000-A	175V-455V	300V-800V	4KW/5.5HP	22	98	2"	850V	≥1.3*PUMP POWER
15 CS-4AC/DCP22-135-380/550-5500-A	175V-455V	300V-800V	5.5KW/7.5HP	22	135	2"	850V	≥1.3*PUMP POWER
16 CS-4AC/DCP22-170-380/550-7500-A	175V-455V	300V-800V	7.5KW/10HP	22	170	2"	850V	≥1.3*PUMP POWER

# CS-4AC/DCS-A (3KW-7.5KW)

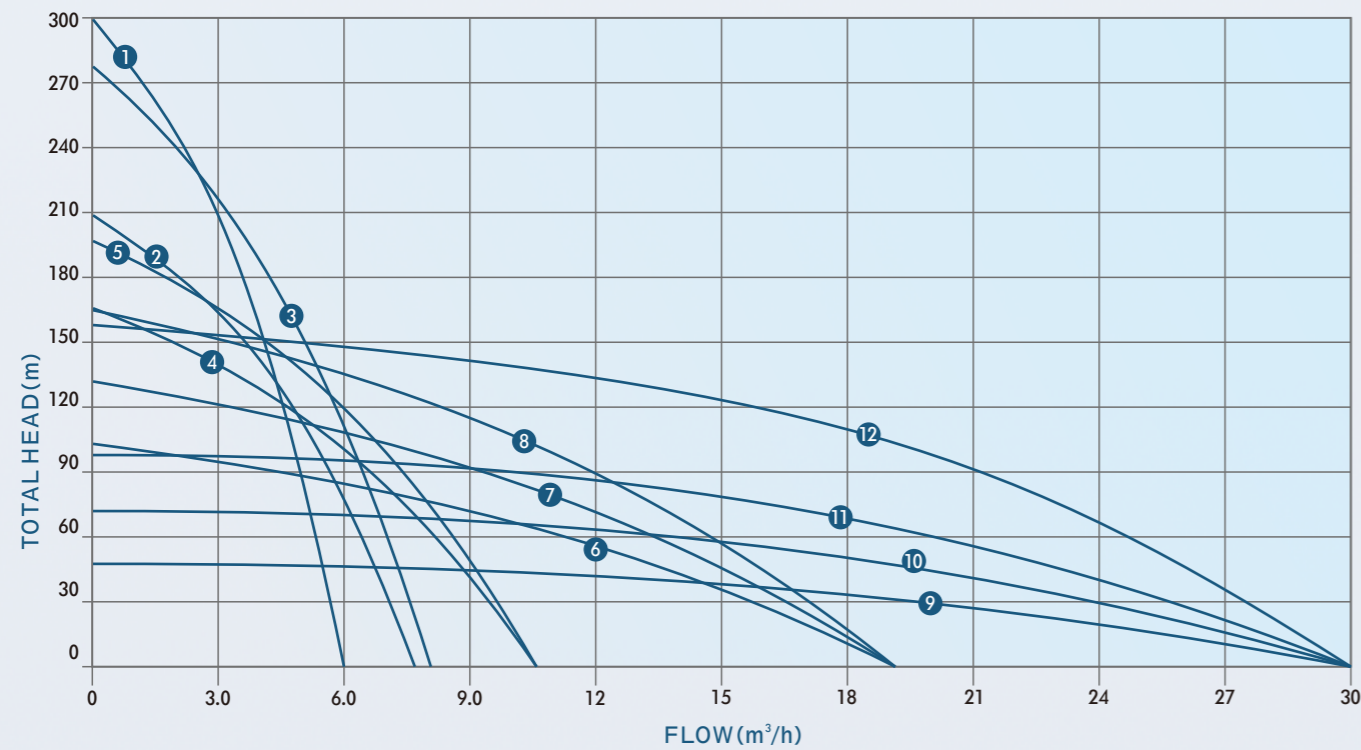
STAINLESS STEEL SOLAR WATER PUMP

## COMPLIMENTARY ACCESSORIES



## HYDRAULIC PERFORMANCE CURVES

SPEED  $\approx$  4000 r/min



## TECHNICAL DATA

Model	Pump Voltage (AC)	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Solar Panels Suggestion ( $\geq 1.3 \times$ PUMP POWER)	
							Open circuit voltage (VOC)	Power (W)
1 CS-4AC/DCS6-300-380/300-3000-A	175V-455V	300V-800V	3KW/4HP	6	300	1.25"	< 850V	$\geq 1.3 \times$ PUMP POWER
2 CS-4AC/DCS7.5-210-380/300-3000-A	175V-455V	300V-800V	3KW/4HP	7.5	210	1.25"	850V	$\geq 1.3 \times$ PUMP POWER
3 CS-4AC/DCS8-272-380/400-4000-A	175V-455V	300V-800V	4KW/5.5HP	8	272	1.25"	850V	$\geq 1.3 \times$ PUMP POWER
4 CS-4AC/DCS11-157-380/300-3000-A	175V-455V	300V-800V	3KW/4HP	11	157	2"	850V	$\geq 1.3 \times$ PUMP POWER
5 CS-4AC/DCS11-200-380/400-4000-A	175V-455V	300V-800V	4KW/5.5HP	11	200	2"	850V	$\geq 1.3 \times$ PUMP POWER
6 CS-4AC/DCS19-98-380/300-3000-A	175V-455V	300V-800V	3KW/4HP	19	98	2"	850V	$\geq 1.3 \times$ PUMP POWER
7 CS-4AC/DCS19-135-380/400-4000-A	175V-455V	300V-800V	4KW/5.5HP	19	135	2"	850V	$\geq 1.3 \times$ PUMP POWER
8 CS-4AC/DCS19-170-380/550-5500-A	175V-455V	300V-800V	5.5KW/7.5HP	19	170	2"	850V	$\geq 1.3 \times$ PUMP POWER
9 CS-4AC/DCS30-52-380/300-3000-A	175V-455V	300V-800V	3KW/4HP	30	52	2"	850V	$\geq 1.3 \times$ PUMP POWER
10 CS-4AC/DCS30-74-380/400-4000-A	175V-455V	300V-800V	4KW/5.5HP	30	74	2"	850V	$\geq 1.3 \times$ PUMP POWER
11 CS-4AC/DCS30-96-380/550-5500-A	175V-455V	300V-800V	5.5KW/7.5HP	30	96	2"	850V	$\geq 1.3 \times$ PUMP POWER
12 CS-4AC/DCS30-155-380/550-7500-A	175V-455V	300V-800V	7.5KW/10HP	30	155	2"	850V	$\geq 1.3 \times$ PUMP POWER

# CS-4/6AC/DCS-A(3KW-7.5KW)

STAINLESS STEEL SOLAR WATER PUMP

## COMPLIMENTARY ACCESSORIES



AC/DC

AC/DC AUTOMATIC SWITCHING  
AC/DC HYBRID COMPLEMENTARITY

4G

4G INTERNET OF THINGS



INTEGRATED DSP & MPPT(MAXIMUM POWER POINT REMOTE CONTROL ETC.)



OVERLOAD AND HIGH ADJUSTABLE SPEED CONTROL OF MOTOR



SUITABLE FOR WIDE DC VOLTAGE OPERATION



THE EFFICIENCY IS IMPROVED BY 25%



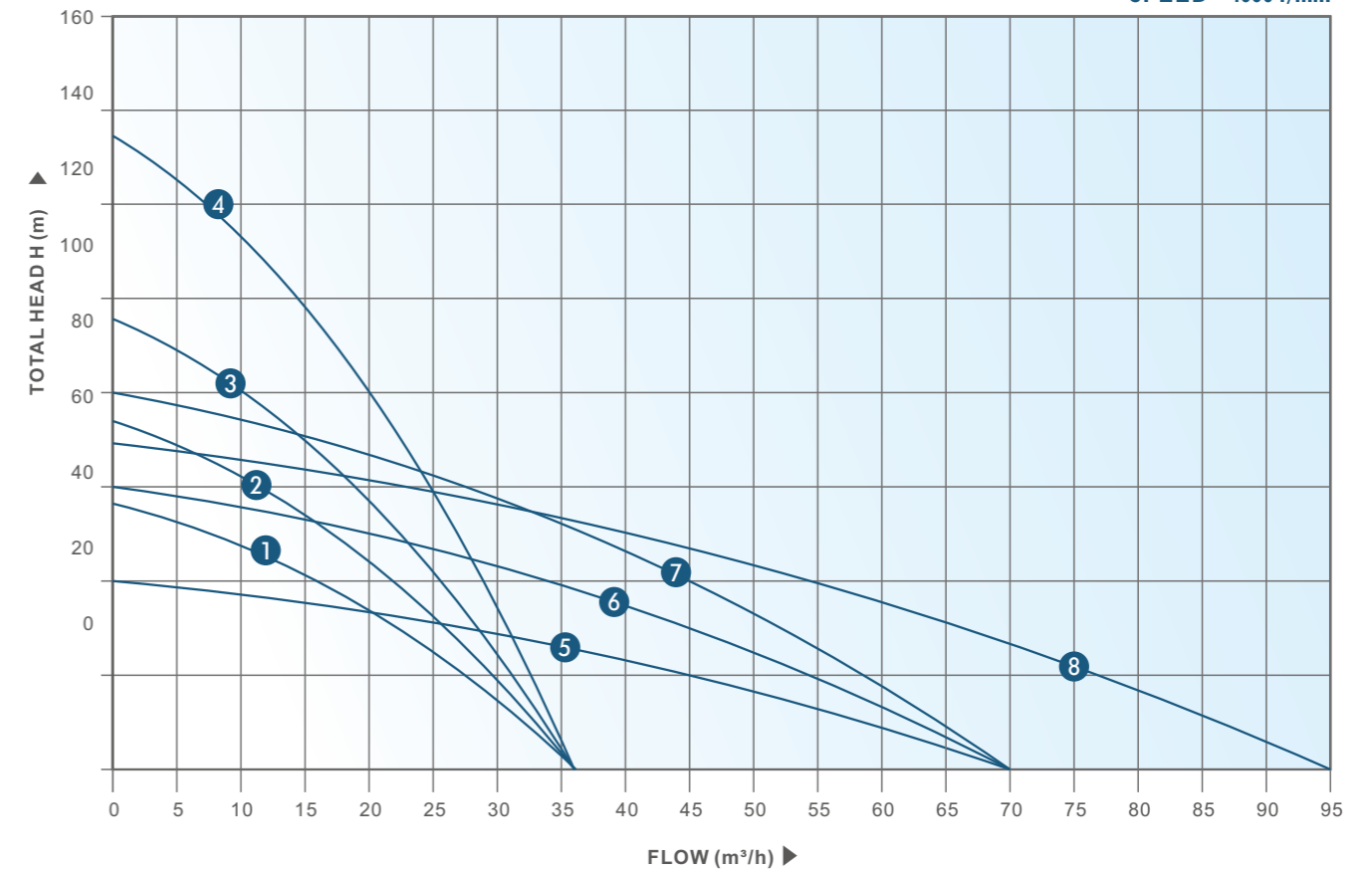
INGRESS PROTECTION 65



TEMPERATURE PROTECTION AND AGAINST REVERSE POLARITY

## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min

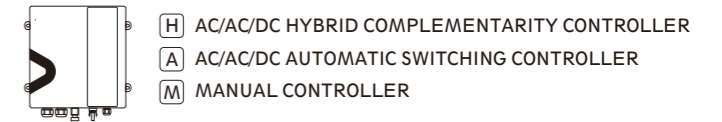


## TECHNICAL DATA

Model	Pump Voltage (AC)	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Solar Panels Suggestion (≥1.3*PUMP POWER)	
							Open circuit voltage (VOC)	Power (W)
1 CS-4/6AC/DCS36-56-380/300-3000-A	175V-455V	300V-800V	3KW/4HP	36	56	3"	< 850V	≥1.3*PUMP POWER
2 CS-4/6AC/DCS36-75-380/400-4000-A	175V-455V	300V-800V	4KW/5.5HP	36	75	3"	850V	≥1.3*PUMP POWER
3 CS-4/6AC/DCS36-98-380/550-5500-A	175V-455V	300V-800V	5.5KW/7.5HP	36	98	3"	850V	≥1.3*PUMP POWER
4 CS-4/6AC/DCS36-135-380/550-7500-A	175V-455V	300V-800V	7.5KW/10HP	36	135	3"	850V	≥1.3*PUMP POWER
5 CS-4/6AC/DCS70-40-380/400-4000-A	175V-455V	300V-800V	4KW/5.5HP	70	40	3"	850V	≥1.3*PUMP POWER
6 CS-4/6AC/DCS70-60-380/550-5500-A	175V-455V	300V-800V	5.5KW/7.5HP	70	60	3"	850V	≥1.3*PUMP POWER
7 CS-4/6AC/DCS70-80-380/550-7500-A	175V-455V	300V-800V	7.5KW/10HP	70	80	3"	850V	≥1.3*PUMP POWER
8 CS-4/6AC/DCS95-66-380/550-7500-A	175V-455V	300V-800V	7.5KW/10HP	95	66	4"	850V	≥1.3*PUMP POWER

# CS-6AC/DCS-A(5.5KW-22KW)

STAINLESS STEEL SOLAR WATER PUMP

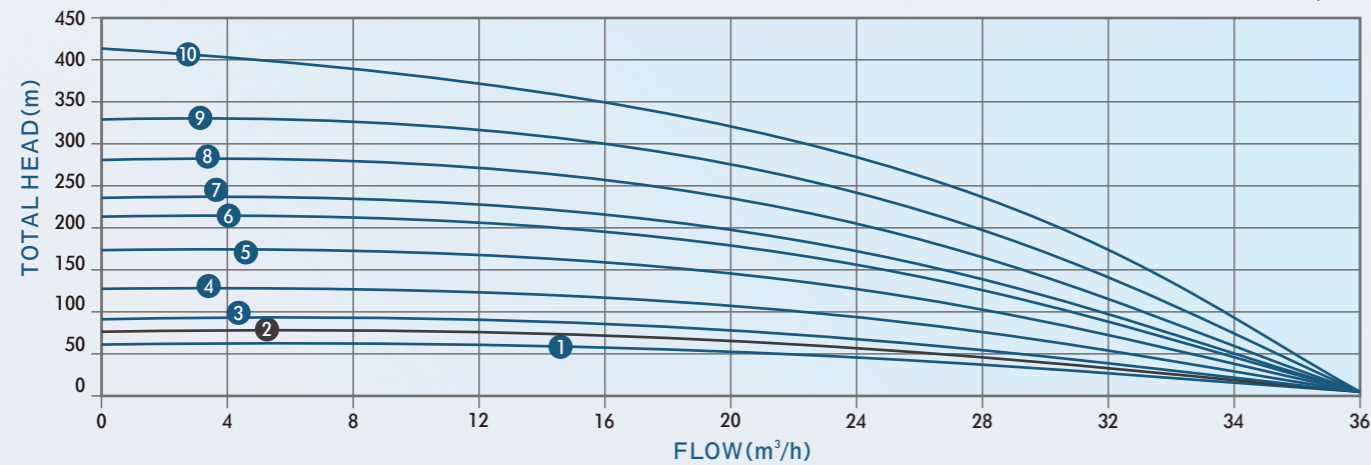


## COMPLIMENTARY ACCESSORIES

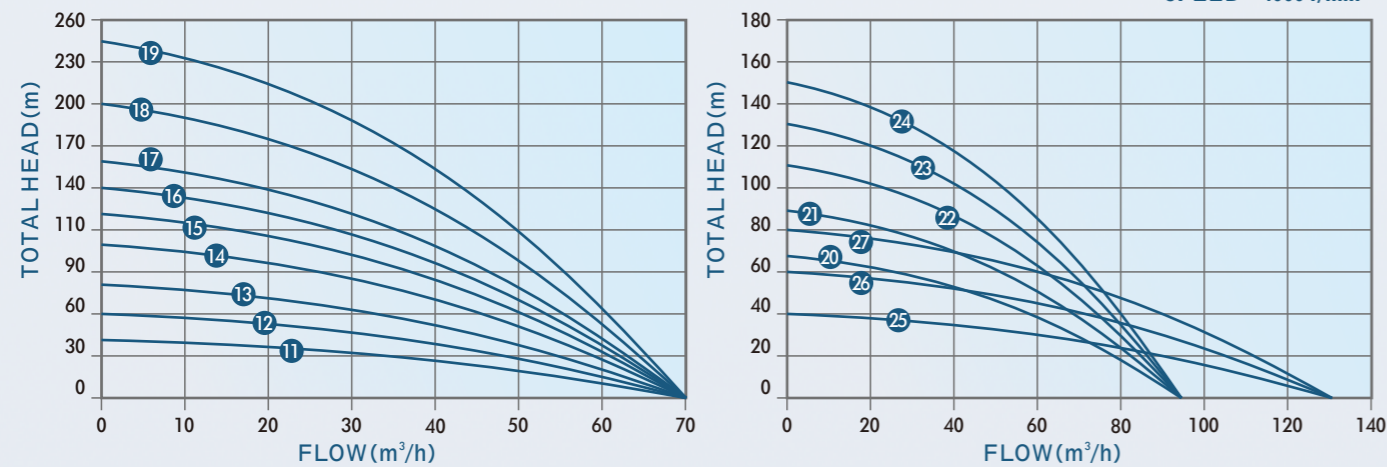


## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



SPEED ≈ 4000 r/min



## TECHNICAL DATA

Model	Pump Voltage (AC)	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Solar Panels Suggestion (≥1.3*PUMP POWER)	
							Open circuit voltage (VOC)	Power (W)
1 CS-6AC/DCS36-56-380/300-3000-A	175V-455V	300V-800V	3KW/4HP	36	56	3"	< 850V	≥1.3*PUMP POWER
2 CS-6AC/DCS36-75-380/400-4000-A	175V-455V	300V-800V	4KW/5.5HP	36	75	3"	850V	≥1.3*PUMP POWER
3 CS-6AC/DCS36-98-380/550-5500-A	175V-455V	300V-800V	5.5KW/7.5HP	36	98	3"	850V	≥1.3*PUMP POWER
4 CS-6AC/DCS36-130-380/550-7500-A	175V-455V	300V-800V	7.5KW/10HP	36	130	3"	850V	≥1.3*PUMP POWER
5 CS-6AC/DCS36-175-380/550-9200-A	175V-455V	300V-800V	9.2KW/12.5HP	36	175	3"	850V	≥1.3*PUMP POWER
6 CS-6AC/DCS36-210-380/550-11000-A	175V-455V	300V-800V	11KW/15HP	36	210	3"	850V	≥1.3*PUMP POWER
7 CS-6AC/DCS36-245-380/550-13000-A	175V-455V	300V-800V	13KW/17.5HP	36	245	3"	850V	≥1.3*PUMP POWER
8 CS-6AC/DCS36-285-380/550-15000-A	175V-455V	300V-800V	15KW/20HP	36	285	3"	850V	≥1.3*PUMP POWER
9 CS-6AC/DCS36-340-380/550-18500-A	175V-455V	300V-800V	18.5KW/25HP	36	340	3"	< 850V	≥1.3*PUMP POWER
10 CS-6AC/DCS36-415-380/550-22000-A	175V-455V	300V-800V	22KW/30HP	36	415	3"	850V	≥1.3*PUMP POWER
11 CS-6AC/DCS70-40-380/400-4000-A	175V-455V	300V-800V	4KW/5.5HP	70	40	3"	850V	≥1.3*PUMP POWER
12 CS-6AC/DCS70-60-380/550-5500-A	175V-455V	300V-800V	5.5KW/7.5HP	70	60	3"	850V	≥1.3*PUMP POWER
13 CS-6AC/DCS70-80-380/550-7500-A	175V-455V	300V-800V	7.5KW/10HP	70	80	3"	850V	≥1.3*PUMP POWER
14 CS-6AC/DCS70-100-380/550-9200-A	175V-455V	300V-800V	9.2KW/12.5HP	70	100	3"	850V	≥1.3*PUMP POWER
15 CS-6AC/DCS70-120-380/550-11000-A	175V-455V	300V-800V	11KW/15HP	70	120	3"	850V	≥1.3*PUMP POWER
16 CS-6AC/DCS70-140-380/550-13000-A	175V-455V	300V-800V	13KW/17.5HP	70	140	3"	850V	≥1.3*PUMP POWER
17 CS-6AC/DCS70-160-380/550-15000-A	175V-455V	300V-800V	15KW/20HP	70	160	3"	< 850V	≥1.3*PUMP POWER
18 CS-6AC/DCS70-200-380/550-18500A	175V-455V	300V-800V	18.5KW/25HP	70	200	3"	850V	≥1.3*PUMP POWER
19 CS-6AC/DCS70-240-380/550-22000-A	175V-455V	300V-800V	22KW/30HP	70	240	3"	850V	≥1.3*PUMP POWER
20 CS-6AC/DCS95-66-380/550-7500-A	175V-455V	300V-800V	7.5KW/10HP	95	66	4"	850V	≥1.3*PUMP POWER
21 CS-6AC/DCS95-88-380/550-11000-A	175V-455V	300V-800V	11KW/15HP	95	88	4"	850V	≥1.3*PUMP POWER
22 CS-6AC/DCS95-110-380/550-15000-A	175V-455V	300V-800V	15KW/20HP	95	110	4"	850V	≥1.3*PUMP POWER
23 CS-6AC/DCS95-130-380/550-18500-A	175V-455V	300V-800V	18.5KW/25HP	95	130	4"	850V	≥1.3*PUMP POWER
24 CS-6AC/DCS95-150-380/550-22000-A	175V-455V	300V-800V	22KW/30HP	95	150	4"	850V	≥1.3*PUMP POWER
25 CS-6AC/DCS130-40-380/550-11000-A	175V-455V	300V-800V	11KW/15HP	130	40	4"	850V	≥1.3*PUMP POWER
26 CS-6AC/DCS130-60-380/550-15000-A	175V-455V	300V-800V	15KW/20HP	130	60	4"	850V	≥1.3*PUMP POWER
27 CS-6AC/DCS130-80-380/550-22000-A	175V-455V	300V-800V	22KW/30HP	130	80	4"	850V	≥1.3*PUMP POWER

# DC SOLAR PUMP SERIES

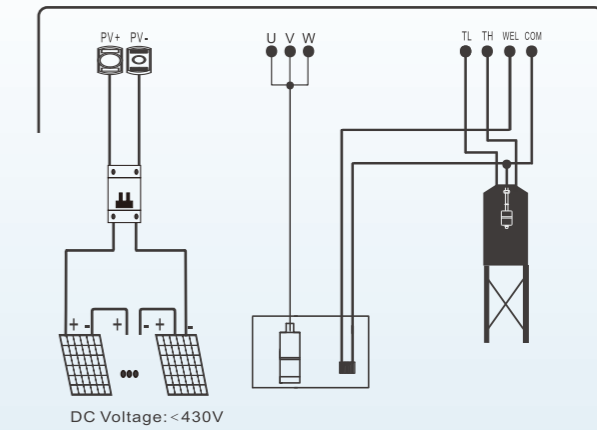
Professional Solar Pump Manufacturer

## DESIGNED FOR HARSH WORKING CONDITIONS

-  Maximum Power Point Tracking
-  Ingress Protection 65
-  LED light-emitting diode
-  All Aluminum Heat Dissipation
-  Fault Wiring Protection/overvoltage Protection/Short Circuit Protection
-  Fault code alarm

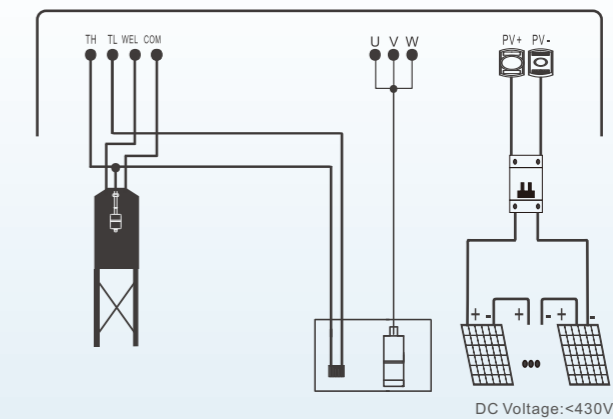


### DC SOLAR CONTROLLER WORKING ENVIRONMENT AND ELECTRICAL PERFORMANCE



Controller and Pump Matching Method					
Controller Model	Adaptable Pump	Max. Input Current (A)	Max. Open Circuit Voltage (V)	MPPT Voltage Range (V)	Working Temperature (°C)
1 CS-24	Rated 24V Pump	15	<50	24-36	-15-60
2 CS-36	Rated 36V Pump	15	<50	24-36	-15-60
3 CS-48	Rated 48V Pump	15	<100	48-72	-15-60
4 CS-72	Rated 72V Pump	15	<150	72-108	-15-60
5 CS-96/110	Rated 96/110V Pump	15	<200	96-144	-15-60

### AC/DC MANUAL SWITCHING CONTROLLER WORKING ENVIRONMENT AND ELECTRICAL PERFORMANCE



Controller and Pump Matching Method						
Controller Model	Adaptable Pump	DC Max. Input Current (A)	AC Max. Input Current (A)	DC Input Voltage (V)	AC Input Voltage (V)	Working Temperature (°C)
1 CS-AC220V/DC96/110V	Rated AC220V/DC96/110V Pump	15	20	80-430	150-264	-15-60
2 CS-AC220V/DC144V	Rated AC220V/DC144V Pump	15	20	80-430	150-264	-15-60
3 CS-AC220V/DC192V	Rated AC220V/DC192V Pump	15	20	80-430	150-264	-15-60
4 CS-AC220V/DC280V	Rated AC220V/DC280V Pump	15	20	80-430	150-264	-15-60
5 CS-DC385V	Rated DC385V Pump	15	20	80-430	150-264	-15-60

# CS-2DCP

SY 2" DC PLASTIC IMPELLER



## COMPLIMENTARY ACCESSORIES



## PRODUCT FEATURES

**AC/DC** AC/DC AUTOMATIC SWITCHING  
AC/DC HYBRID COMPLEMENTARITY

**4G** 4G INTERNET OF THINGS

**MPPT** INTEGRATED DSP & MPPT (MAXIMUM  
POWER POINT REMOTE CONTROL ETC.)

**Shield** OVERLOAD AND HIGH ADJUSTABLE  
SPEED CONTROL OF MOTOR

**Lightning** SUITABLE FOR WIDE  
DC VOLTAGE OPERATION

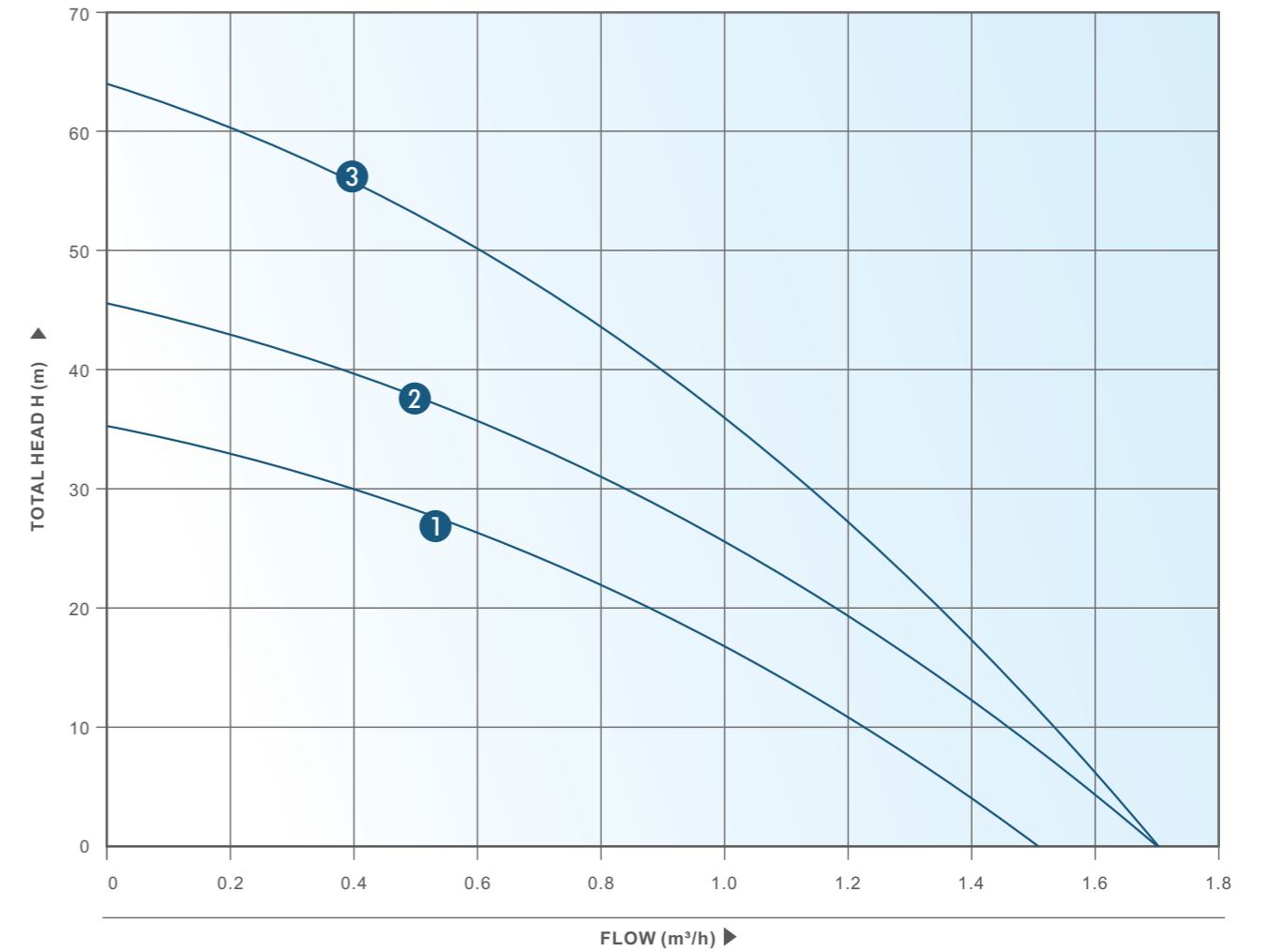
**+25%** THE EFFICIENCY  
IS IMPROVED BY 25%

**IP65** INGRESS PROTECTION 65

**Thermometer** TEMPERATURE PROTECTION AND  
AGAINST REVERSE POLARITY

## HYDRAULIC PERFORMANCE CURVES

SPEED  $\approx$  4000 r/min



## TECHNICAL DATA

Model	Pump Voltage	Open circuit Voltage (SYDC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Cable (m)	Solar Panels Suggestion ( $\geq 1.3 \times$ PUMP POWER)			
								Power	Quantity (pcs)	Power (W)	Connection
1 CS-2DCP1.5-35-24-200	24V	30V-48V	200	1.5	35	0.75"	2	< 50V	1	300	
2 CS-2DCP1.7-45-24-300	24V	30V-48V	300	1.7	45	0.75"	2	< 50V	2	250	
3 CS-2DCP1.7-64-48-400	48V	60V-90V	400	1.7	64	0.75"	2	< 100V	2	300	

# CS-3DC-S

SCREW SOLAR WATER PUMP



## COMPLIMENTARY ACCESSORIES



## PRODUCT FEATURES



INTEGRATED DSP & MPPT (MAXIMUM POWER POINT REMOTE CONTROL ETC.)



THE PUMP IS COMPACT AND EASY TO USE



OVERLOAD AND HIGH ADJUSTABLE SPEED CONTROL OF MOTOR



MAINTENANCE-FREE BRUSHLESS DC MOTOR



SUITABLE FOR WIDE DC VOLTAGE OPERATION



THE EFFICIENCY IS IMPROVED BY 25%



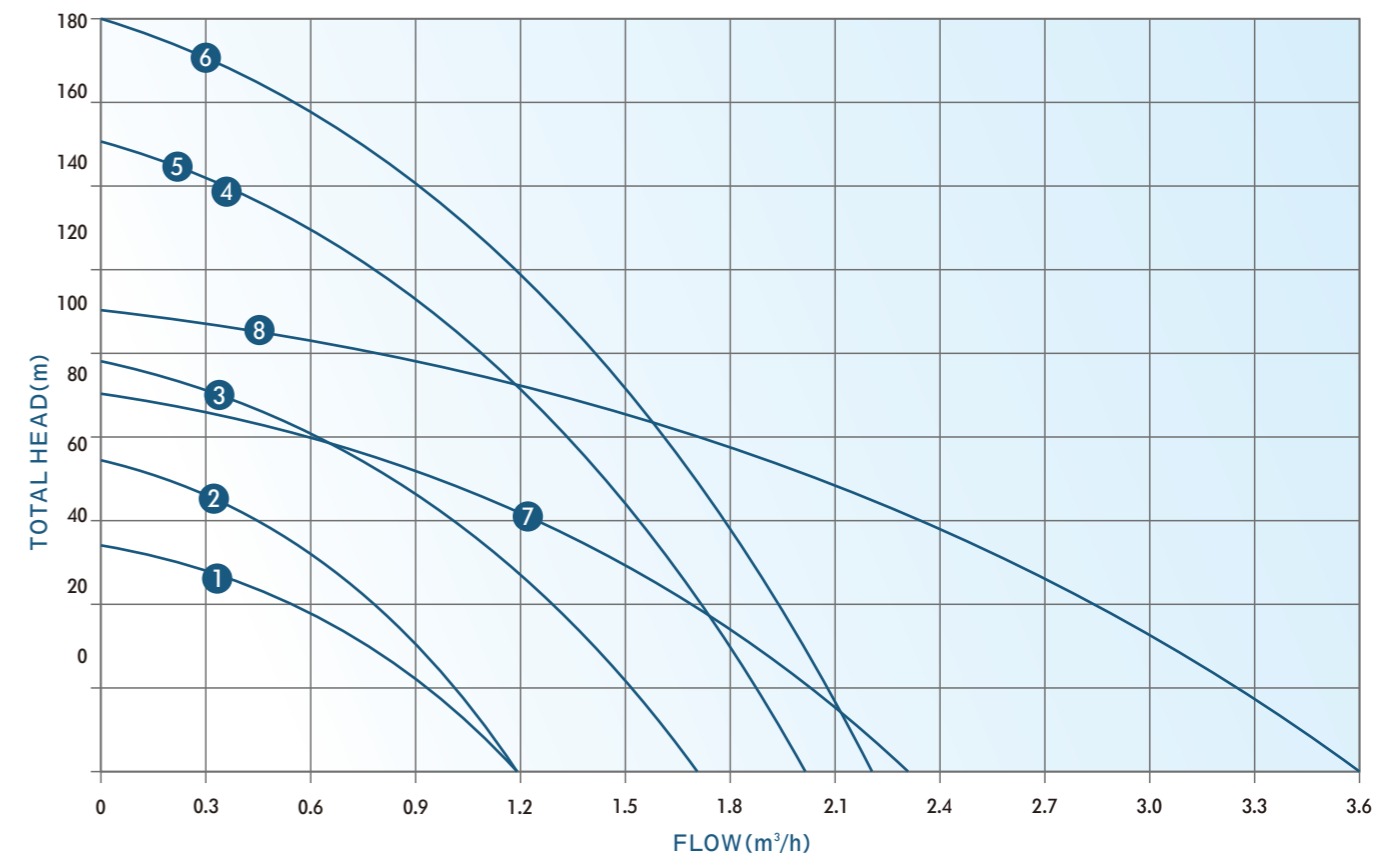
INGRESS PROTECTION 65



TEMPERATURE PROTECTION AND AGAINST REVERSE POLARITY

## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



## TECHNICAL DATA

Model	Pump Voltage	Open circuit Voltage (SYDC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Cable (m)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
								Power	Quantity (pcs)	Power (W)	Connection
① CS-3DC1.2-56-24-120-S	24V	30V-48V	120W	1.2	56	0.75"	2	< 50V	1	250	
② CS-3DC1.2-77-36-210-S	36V	30V-48V	210W	1.2	77	0.75"	2	50V	1	300	
③ CS-3DC1.7-109-48-500-S	48V	60V-90V	500W	1.7	109	0.75"	2	100V	2	330	
④ CS-3DC2.0-150-48-750-S	48V	60V-90V	750W	2.0	150	0.75"	2	100V	4	250	
⑤ CS-3DC2.0-150-72-750-S	72V	90V-120V	750W	2.0	150	0.75"	2	150V	3	330	
⑥ CS-3DC2.2-180-72-1100-S	72V	90V-120V	1100W	2.2	180	0.75"	2	150V	6	300	
⑦ CS-4DC2.3-95-48-600-S	48V	90V-120V	600W	2.3	95	1"	2	100V	4	250	
⑧ CS-4DC3.6-110-72-750-S	72V	110V-150V	750W	3.6	110	1"	2	150V	3	330	

# CS-3DCP

PLASTIC IMPELLER SOLAR WATER PUMP

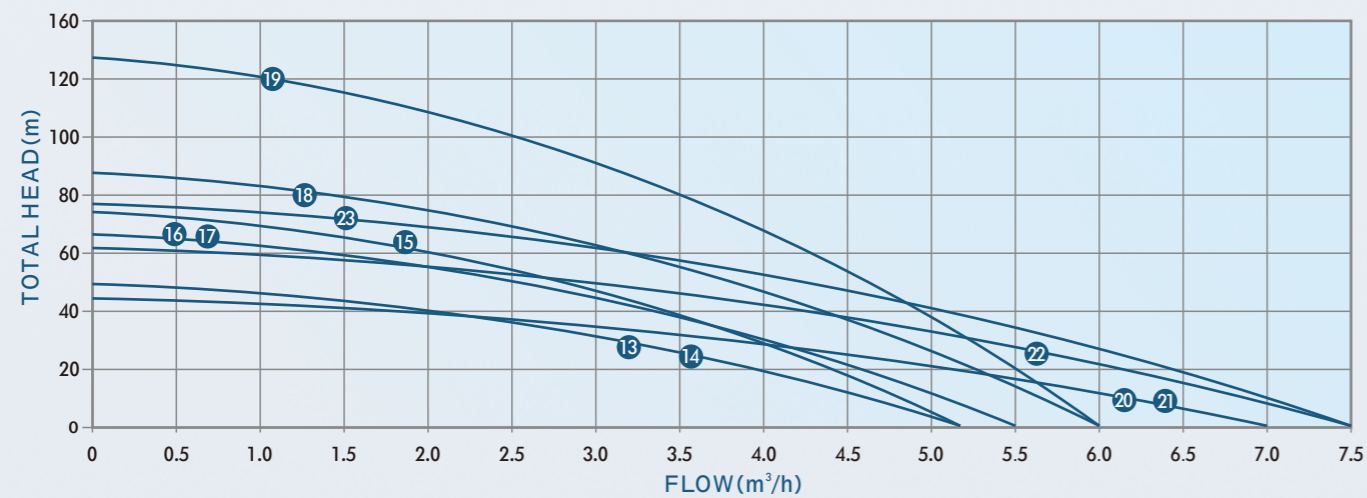
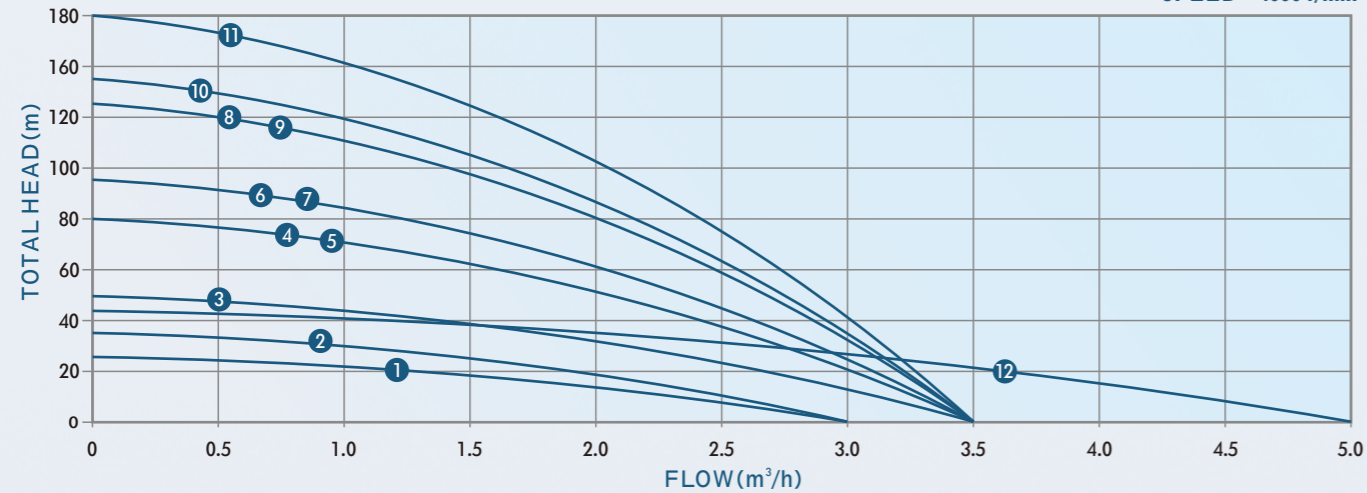


## COMPLIMENTARY ACCESSORIES



## HYDRAULIC PERFORMANCE CURVES

SPEED  $\approx$  4000 r/min



## TECHNICAL DATA

Model	Pump Voltage	Open circuit Voltage (SYDC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Cable (m)	Solar Panels Suggestion ( $\geq 1.3 \times$ PUMP POWER)			
								Power	Quantity (pcs)	Power (W)	Connection
1 CS-3DCP3-25-24-200	24V	30V-48V	200W	3	25	1.25"	2	< 50V	1	300	
2 CS-3DCP3-35-24-300	24V	30V-48V	300W	3	35	1.25"	2	50V	2	250	
3 CS-3DCP3.5-47-48-400	48V	60V-90V	400W	3.5	47	1.25"	2	100V	2	300	
4 CS-3DCP3.5-80-48-600	48V	60V-90V	600W	3.5	80	1.25"	2	100V	4	250	
5 CS-3DCP3.5-80-72-600	72V	90V-120V	600W	3.5	80	1.25"	2	150V	3	300	
6 CS-3DCP3.5-95-48-750	48V	60V-90V	750W	3.5	95	1.25"	2	100V	4	250	
7 CS-3DCP3.5-95-72-750	72V	90V-120V	750W	3.5	95	1.25"	2	150V	3	330	
8 CS-3DCP3.5-123-72-1100	72V	90V-120V	1100W	3.5	123	1.25"	2	150V	6	300	
9 CS-3DCP3.5-123-110-1100	110V	110V-150V	1100W	3.5	123	1.25"	2	200V	6	300	
10 CS-3DCP3.5-155-110-1300	110V	110V-150V	1300W	3.5	155	1.25"	2	200V	6	300	
11 CS-3DCP3.5-180-110-1500	110V	110V-150V	1500W	3.5	180	1.25"	2	200V	8	300	
12 CS-3DCP5-45-48-500	48V	60V-90V	500W	5	45	1.5"	2	100V	2	330	
13 CS-3DCP5.2-50-48-600	48V	60V-90V	600W	5.2	50	1.5"	2	100V	4	250	
14 CS-3DCP5.2-50-72-600	72V	90V-120V	600W	5.2	50	1.5"	2	150V	3	300	
15 CS-3DCP5.2-75-110-750	110V	110V-150V	750W	5.2	75	1.5"	2	150V	4	300	
16 CS-3DCP5.5-65-72-750	72V	90V-120V	750W	5.5	65	1.5"	2	150V	3	330	
17 CS-3DCP5.5-65-110-750	110V	110V-150V	750W	5.5	65	1.5"	2	200V	4	300	
18 CS-3DCP6-84-110-1100	110V	110V-150V	1100W	6	84	1.5"	2	200V	6	300	
19 CS-3DCP6-125-110-1500	110V	110V-150V	1500W	6	125	1.5"	2	200V	8	300	
20 CS-3DCP7-46-72-750	72V	90V-120V	750W	7	46	1.5"	2	150V	3	330	
21 CS-3DCP7-46-110-750	110V	110V-150V	750W	7	46	1.5"	2	200V	4	300	
22 CS-3DCP7.5-62-110-1100	110V	110V-150V	1100W	7.5	62	1.5"	2	200V	6	300	
23 CS-3DCP7.5-78-110-1500	110V	110V-150V	1500W	7.5	78	1.5"	2	200V	8	300	

# CS-3DCS

STAINLESS STEEL IMPELLER  
SOLAR WATER PUMP



## COMPLIMENTARY ACCESSORIES



## PRODUCT FEATURES



INTEGRATED DSP & MPPT (MAXIMUM POWER POINT REMOTE CONTROL ETC.)



THE PUMP IS COMPACT AND EASY TO USE



OVERLOAD AND HIGH ADJUSTABLE SPEED CONTROL OF MOTOR



MAINTENANCE-FREE BRUSHLESS DC MOTOR



SUITABLE FOR WIDE DC VOLTAGE OPERATION



THE EFFICIENCY IS IMPROVED BY 25%



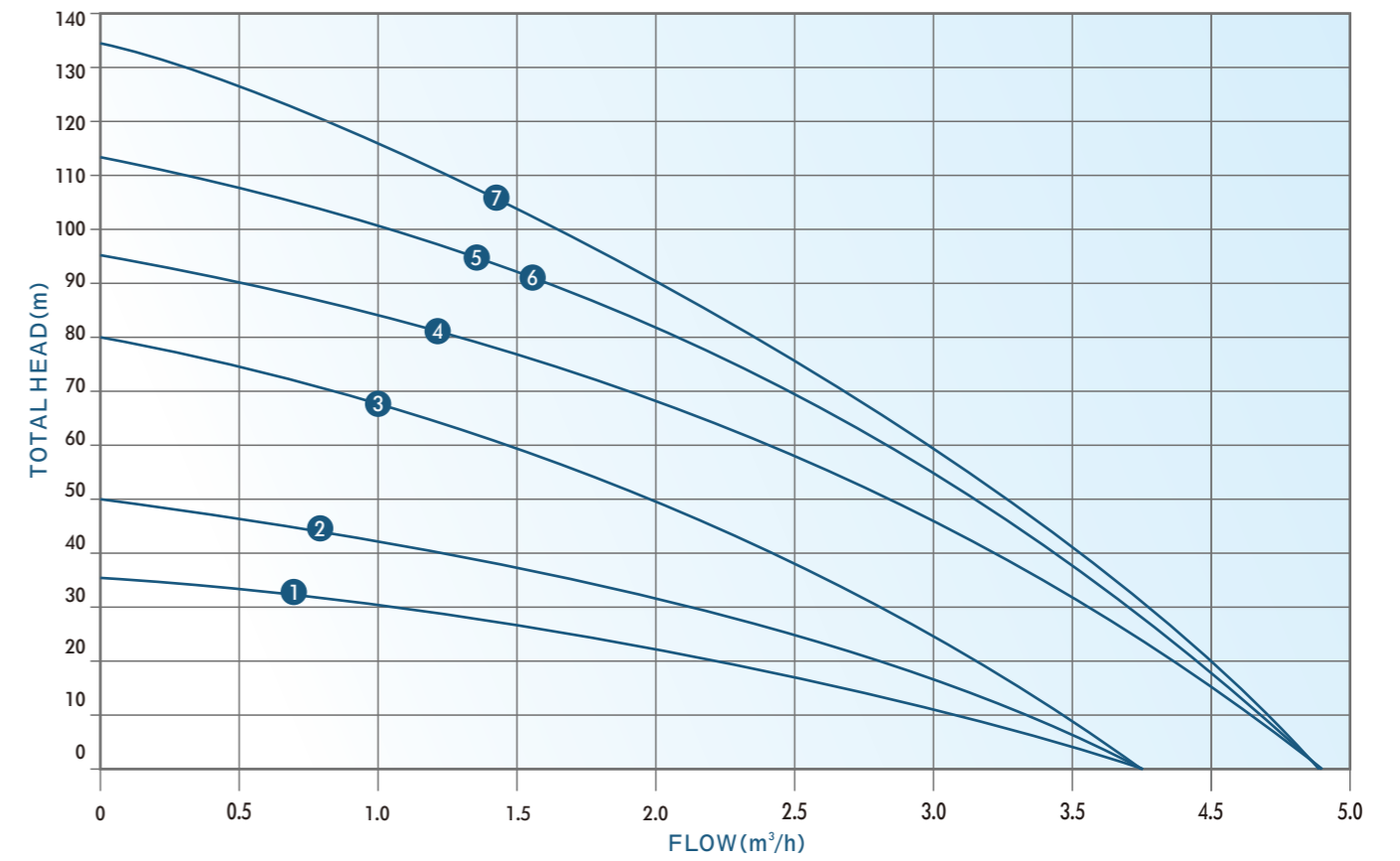
INGRESS PROTECTION 65



TEMPERATURE PROTECTION AND AGAINST REVERSE POLARITY

## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



## TECHNICAL DATA

Model	Pump Voltage	Open circuit Voltage (SYDC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Cable (m)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
								Power	Quantity (pcs)	Power (W)	Connection
1 CS-3DCS4-35-24-300	24V	30V-48V	300W	4	35	1.25"	2	< 50V	2	250	
2 CS-3DCS4-50-48-400	48V	60V-90V	400W	4	50	1.25"	2	< 100V	2	300	
3 CS-3DCS4-80-48-600	48V	60V-90V	600W	4	80	1.25"	2	< 100V	4	250	
4 CS-3DCS4.8-95-72-750	72V	90V-120V	750W	4.8	95	1.25"	2	< 150V	3	330	
5 CS-3DCS4.8-112-72-1100	72V	90V-120V	1100W	4.8	112	1.25"	2	< 150V	6	300	
6 CS-3DCS4.8-112-110-1100	110V	110V-150V	1100W	4.8	112	1.25"	2	< 200V	6	300	
7 CS-3DCS4.8-135-110-1500	110V	110V-150V	1500W	4.8	135	1.25"	2	< 200V	8	300	

# CS-4DCP

PLASTIC IMPELLER SOLAR WATER PUMP

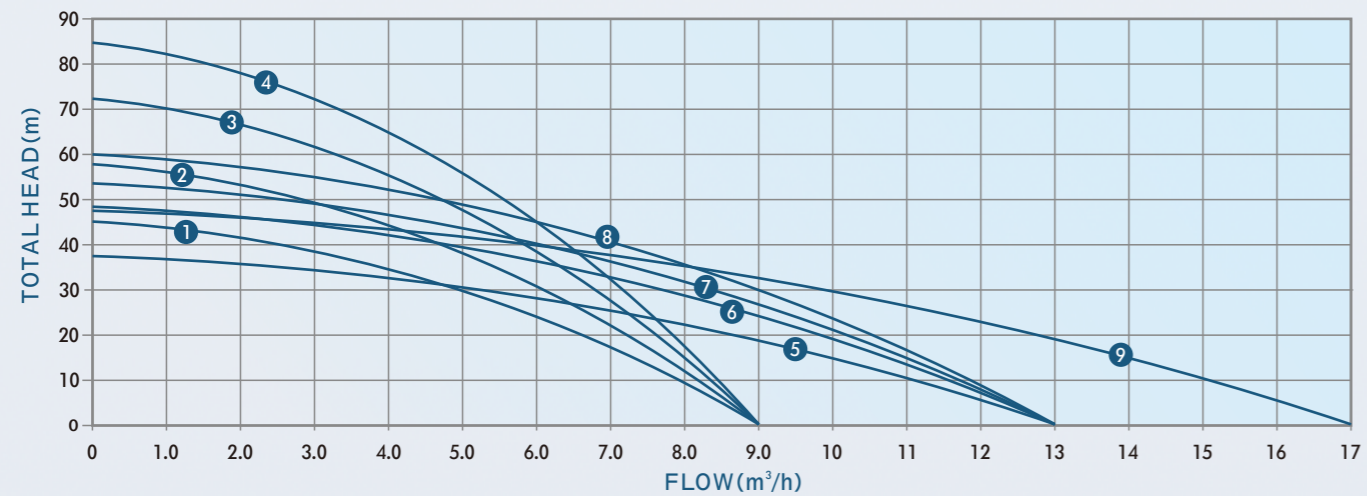
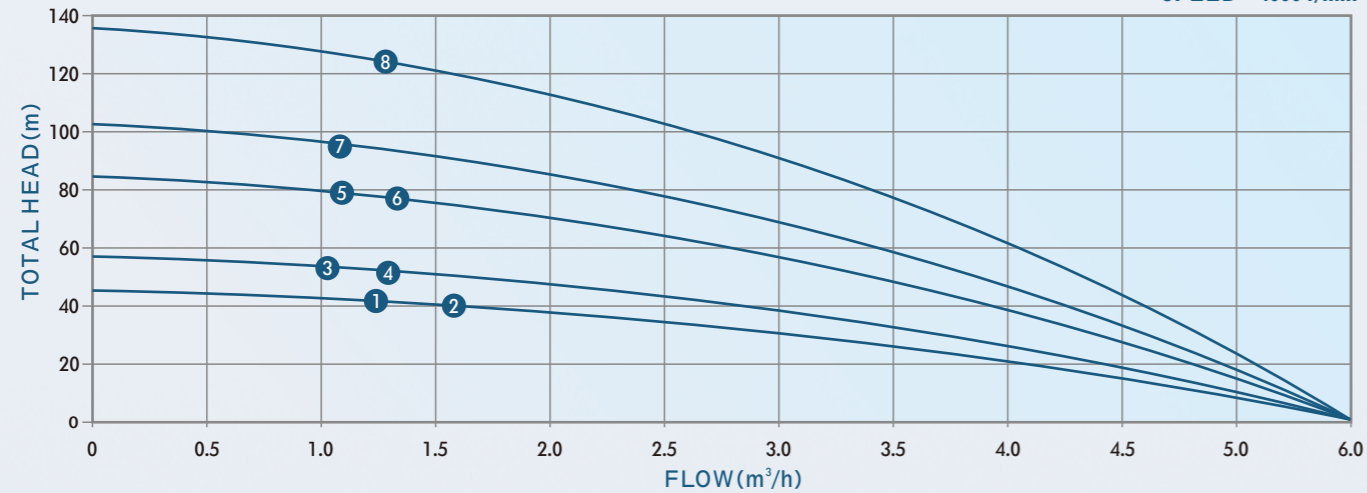


## COMPLIMENTARY ACCESSORIES



## HYDRAULIC PERFORMANCE CURVES

SPEED  $\approx$  4000 r/min



## TECHNICAL DATA

Model	Pump Voltage	Open circuit Voltage (SYDC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Cable (m)	Solar Panels Suggestion ( $\geq 1.3 \times$ PUMP POWER)			
								Power	Quantity (pcs)	Power (W)	Connection
1 CS-4DCP6-45-48-600	48V	60V-90V	600W	6	45	1.25"	2	< 50V	4	250	
2 CS-4DCP6-45-72-600	72V	90V-120V	600W	6	45	1.25"	2	150V	3	330	
3 CS-4DCP6-56-48-750	48V	60V-90V	750W	6	56	1.25"	2	100V	4	250	
4 CS-4DCP6-56-72-750	72V	90V-120V	750W	6	56	1.25"	2	150V	3	330	
5 CS-4DCP6-84-72-1100	72V	90V-120V	1100W	6	84	1.25"	2	150V	6	300	
6 CS-4DCP6-84-110-1100	110V	110V-150V	1100W	6	84	1.25"	2	200V	6	300	
7 CS-4DCP6-112-110-1300	110V	110V-150V	1300W	6	112	1.25"	2	200V	6	300	
8 CS-4DCP6-135-110-1500	110V	110V-150V	1500W	6	135	1.25"	2	200V	8	300	

Model	Pump Voltage	Open circuit Voltage (SYDC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Cable (m)	Solar Panels Suggestion ( $\geq 1.3 \times$ PUMP POWER)			
								Power	Quantity (pcs)	Power (W)	Connection
1 CS-4DCP9-45-110-750	110V	110V-150V	750W	9	45	2"	2	200V	4	300	
2 CS-4DCP9-58-110-1100	110V	110V-150V	1100W	9	58	2"	2	200V	6	300	
3 CS-4DCP9-71-110-1300	110V	110V-150V	1300W	9	71	2"	2	200V	6	300	
4 CS-4DCP9-85-110-1500	110V	110V-150V	1500W	9	85	2"	2	200V	8	300	
5 CS-4DCP13-36-110-750	110V	110V-150V	750W	13	36	2"	2	200V	4	300	
6 CS-4DCP13-49-110-1100	110V	110V-150V	1100W	13	49	2"	2	200V	6	300	
7 CS-4DCP13-54-110-1300	110V	110V-150V	1300W	13	54	2"	2	200V	6	300	
8 CS-4DCP13-60-110-1500	110V	110V-150V	1500W	13	60	2"	2	200V	8	300	
9 CS-4DCP17-48-110-1500	110V	110V-150V	1500W	17	48	2"	2	200V	8	300	

# CS-4DCS

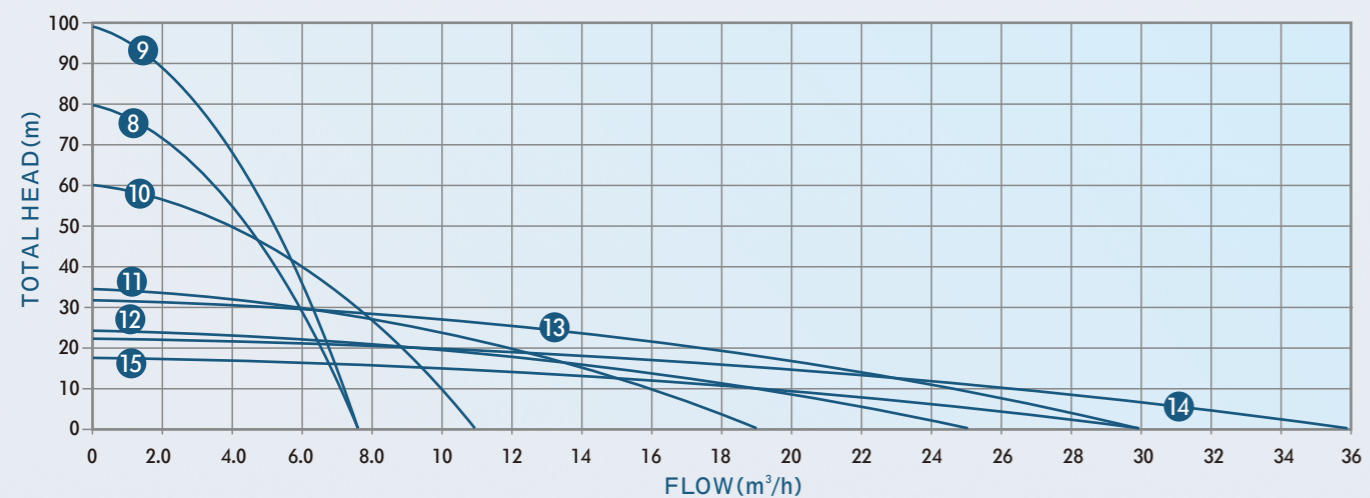
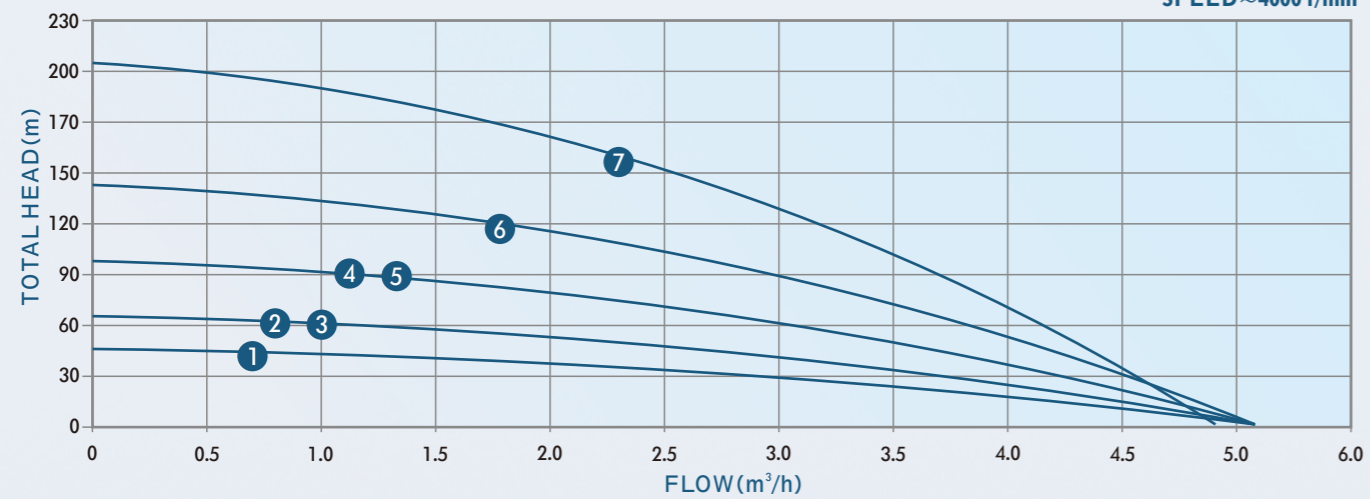
STAINLESS STEEL IMPELLER  
SOLAR WATER PUMP

## COMPLIMENTARY ACCESSORIES



## HYDRAULIC PERFORMANCE CURVES

SPEED  $\approx$  4000 r/min



## TECHNICAL DATA

Model	Pump Voltage	Open circuit Voltage (SYDC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Cable (m)	Solar Panels Suggestion ( $\geq 1.3 \times$ PUMP POWER)			
								Power	Quantity (pcs)	Power (W)	Connection
1 CS-4DCS5.2-45-48-500	48V	60V-90V	500W	5.2	45	1.25"	2	100V	4	250	
2 CS-4DCS5.2-67-48-750	48V	60V-90V	750W	5.2	67	1.25"	2	100V	4	250	
3 CS-4DCS5.2-67-72-750	72V	90V-120V	750W	5.2	67	1.25"	2	150V	3	330	
4 CS-4DCS5.2-101-72-1100	72V	90V-120V	1100W	5.2	101	1.25"	2	150V	6	300	
5 CS-4DCS5.2-101-110-1100	110V	110V-150V	1100W	5.2	101	1.25"	2	200V	6	300	
6 CS-4DCS5.2-146-110-1300	110V	110V-150V	1300W	5.2	146	1.25"	2	200V	6	300	
7 CS-4DCS4.8-203-110-1500	110V	110V-150V	1500W	4.8	203	1.25"	2	200V	8	300	
8 CS-4DCS7.5-80-110-1300	110V	110V-150V	1300W	7.5	80	1.25"	2	200V	6	300	
9 CS-4DCS7.5-100-110-1500	110V	110V-150V	1500W	7.5	100	1.25"	2	200V	8	300	
10 CS-4DCS11-60-110-1500	110V	110V-150V	1500W	11	60	2"	2	200V	8	300	
11 CS-4DCS19-35-110-1500	110V	110V-150V	1500W	19	35	2"	2	200V	8	300	
12 CS-4DCS25-26-110-1500	110V	110V-150V	1500W	25	26	2"	2	200V	8	300	
13 CS-4/6DCS30-19-72-1100	72V	90V-120V	1100W	30	19	3"	2	150V	6	300	
14 CS-4/6DCS36-22-110-1500	110V	110V-150V	1500W	36	22	3"	2	200V	8	300	
15 CS-4/6DCS30-31-110-1500	110V	110V-150V	1500W	30	31	3"	2	200V	8	300	

# CS-DHF

DC SOLAR GROUND PUMP



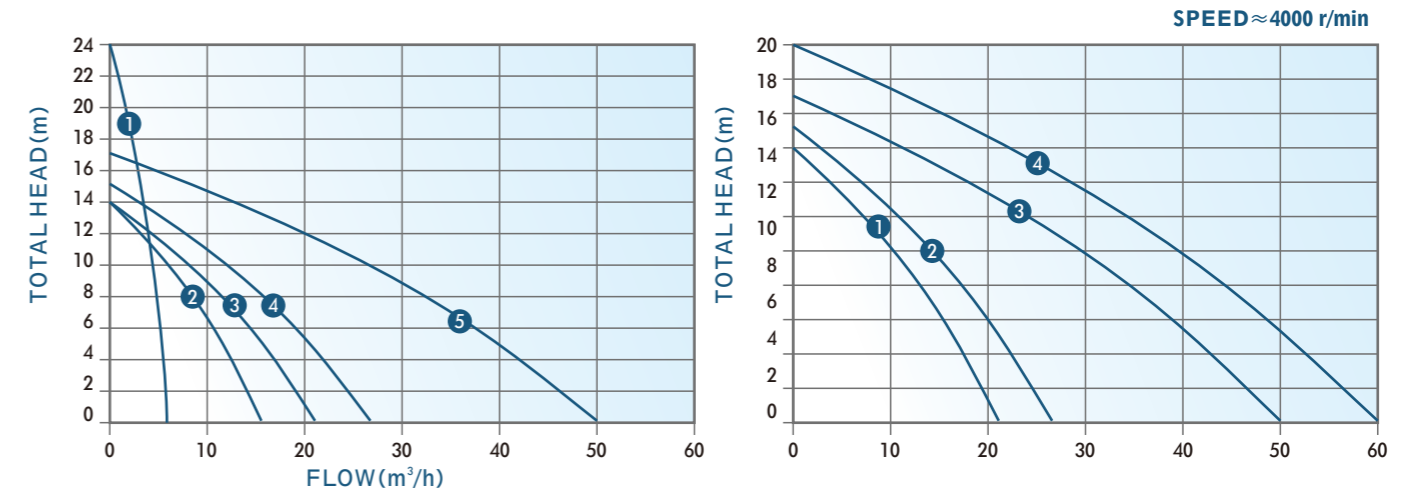
## DC solar ground pump



### PRODUCT FEATURES

 LARGE FLOW	 ENERGY SAVING
 SAFE AND RELIABLE	 SIMPLE INSTALLATION
 SUPERELEVATION HEAD	 ALL COPPER MOTOR
 LOW NOISE	 EXCELLENT QUALITY

### HYDRAULIC PERFORMANCE CURVES



### TECHNICAL DATA

Model	Pump Voltage	Open circuit Voltage (SYDC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Cable (m)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
								Power (W)	Quantity (pcs)	Power (W)	Connection
1 CS-DHF6-24-48-550	48V	60V-90V	550W	6	24	1"	0.6	100V	2	330	
2 CS-DHF15-14-48-550	48V	60V-90V	550W	15	14	1.5"	0.6	100V	2	330	
3 CS-DHF21-14-72-750	72V	90V-120V	750W	21	14	2"	0.6	150V	3	330	
4 CS-DHF26-15-72-1100	72V	90V-120V	1100W	26	15	2"	0.6	150V	6	300	
5 CS-DHF50-17-110-1500	110V	110V-150V	1500W	50	17	3"	0.6	200V	8	300	

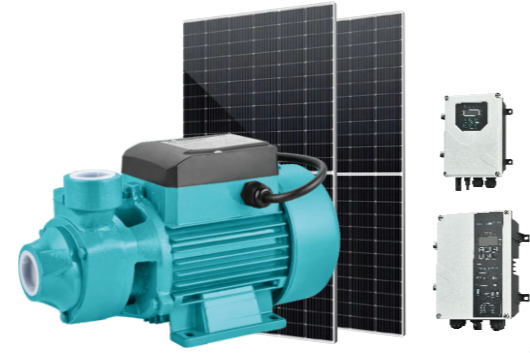


### TECHNICAL DATA

Model	Pump Voltage (AC)	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
							Power (W)	Quantity (pcs)	Power (W)	Connection
1 CS-DHF21-14-110-750(A/H/M)	85V-280V	108V-430V	750W	21	14	2"	< 430V	3	340	
2 CS-DHF26-15-150-1100(A/H/M)	85V-280V	108V-430V	1100W	26	15	2"	430V	4	340	
3 CS-DHF50-17-200-1500(A/H/M)	85V-280V	108V-430V	1500W	50	17	3"	430V	6	340	
4 CS-DHF60-20-300-2200(A/H/M)	85V-280V	108V-430V	2200W	60	20	4"	430V	8	340	

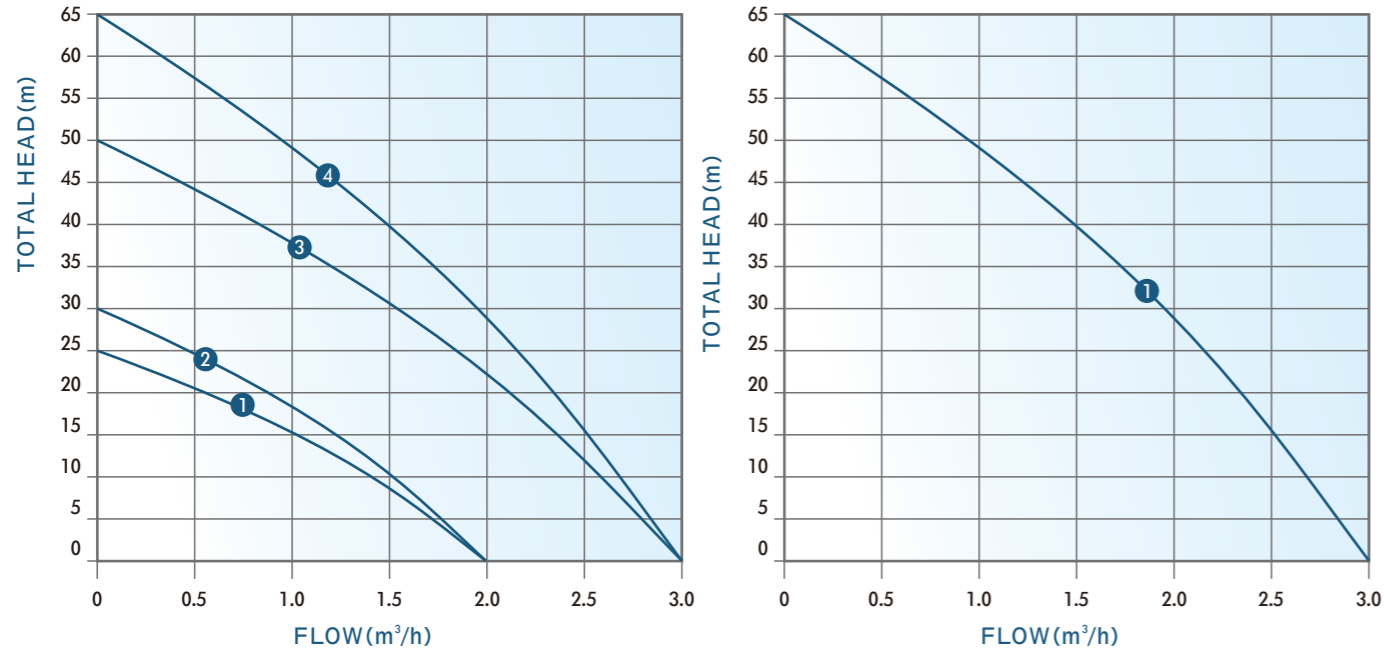
# CS-DQB

DC SOLAR GROUND PUMP



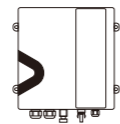
## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



## TECHNICAL DATA

Model	Pump Voltage	Open circuit Voltage (SYDC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Cable (m)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
								Power	Quantity (pcs)	Power (W)	Connection
1 CS-DQB2-25-24-210	24V	30V-48V	210W	2	25	1"×1"	2	< 50V	1	300	
2 CS-DQB2-30-24-280	24V	30V-48V	280W	2	30	1"×1"	2	50V	2	250	
3 CS-DQB3-50-48-550	48V	60V-90V	550W	3	50	1"×1"	2	100V	2	330	
4 CS-DQB3-65-72-750	72V	90V-120V	750W	3	65	1"×1"	2	150V	3	330	



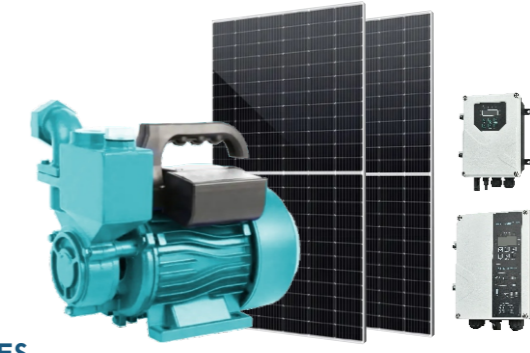
- H AC/AC/DC HYBRID COMPLEMENTARITY CONTROLLER
- A AC/AC/DC AUTOMATIC SWITCHING CONTROLLER
- M MANUAL CONTROLLER

## TECHNICAL DATA

Model	Pump Voltage (AC)	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
							Power	Quantity (pcs)	Power (W)	Connection
1 CS-DQB3-65-110-750(A/H/M)	85V-280V	108V-430V	750W	3	65	1"×1"	< 430V	3	340	

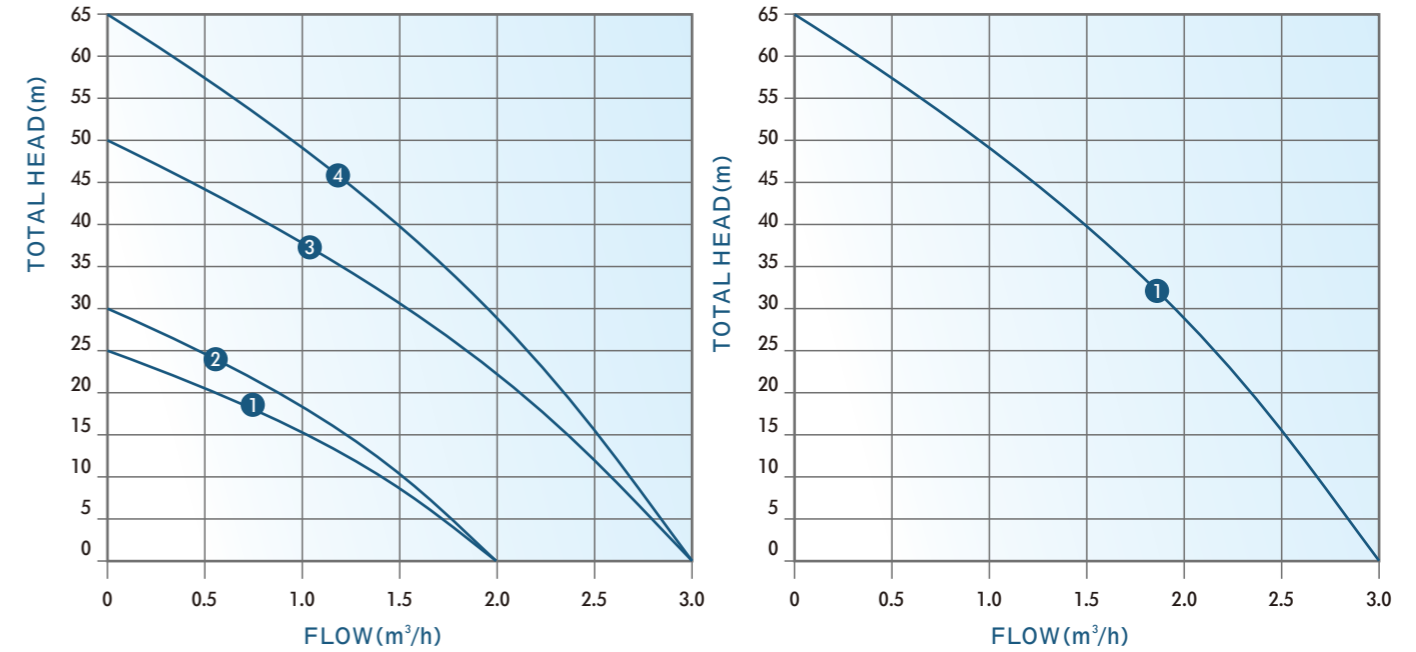
# CS-DZB

DC SOLAR GROUND PUMP



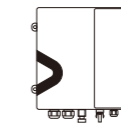
## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



## TECHNICAL DATA

Model	Pump Voltage	Open circuit Voltage (SYDC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Cable (m)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
								Power	Quantity (pcs)	Power (W)	Connection
1 CS-DZB2-25-24-210	24V	30V-48V	210W	2	25	1"×1"	2	< 50V	1	300	
2 CS-DZB2-30-24-280	24V	30V-48V	280W	2	30	1"×1"	2	50V	2	250	
3 CS-DZB3-50-48-550	48V	60V-90V	550W	3	50	1"×1"	2	100V	2	330	
4 CS-DZB3-65-72-750	72V	90V-120V	750W	3	65	1"×1"	2	150V	3	330	



- H AC/AC/DC HYBRID COMPLEMENTARITY CONTROLLER
- A AC/AC/DC AUTOMATIC SWITCHING CONTROLLER
- M MANUAL CONTROLLER

## TECHNICAL DATA

Model	Pump Voltage (AC)	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
							Power	Quantity (pcs)	Power (W)	Connection
1 CS-DZB3-65-110-750(A/H/M)	85V-280V	108V-430V	750W	3	65	1"×1"	< 430V	3	340	

# CS-DJET

DC SOLAR GROUND PUMP



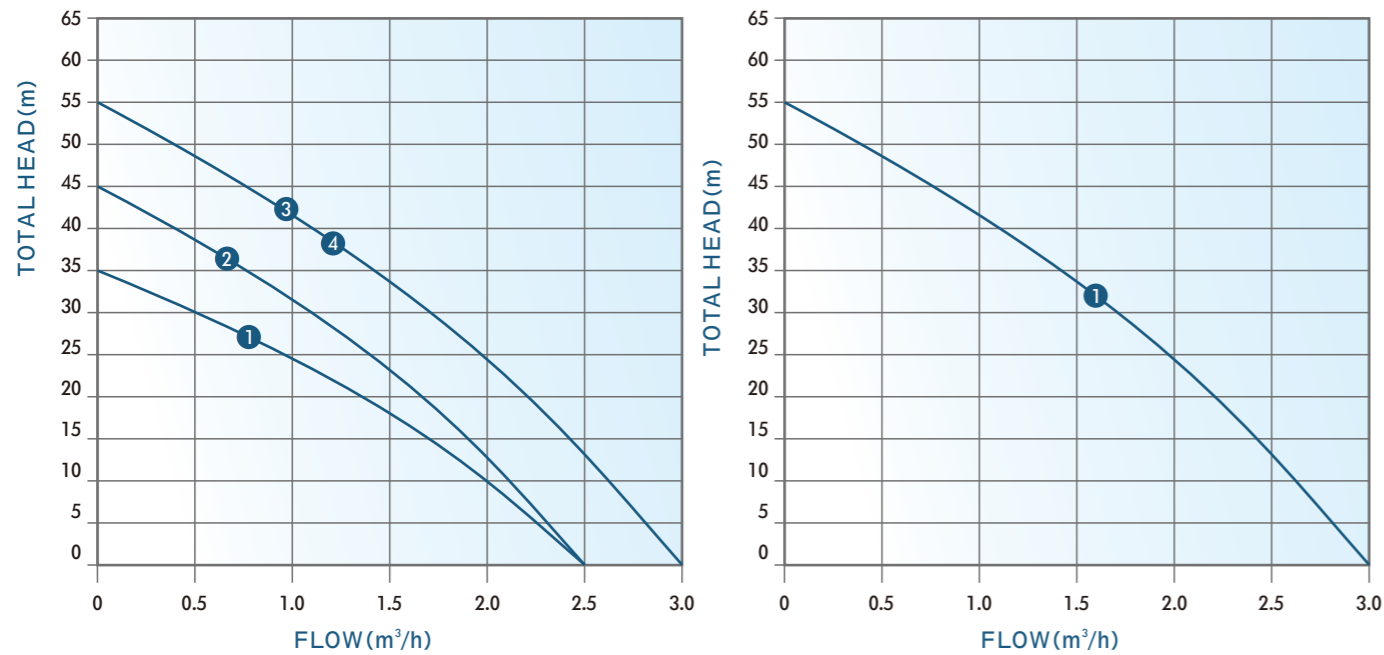
# CS-DLP

SWIMMING POOL PUMP



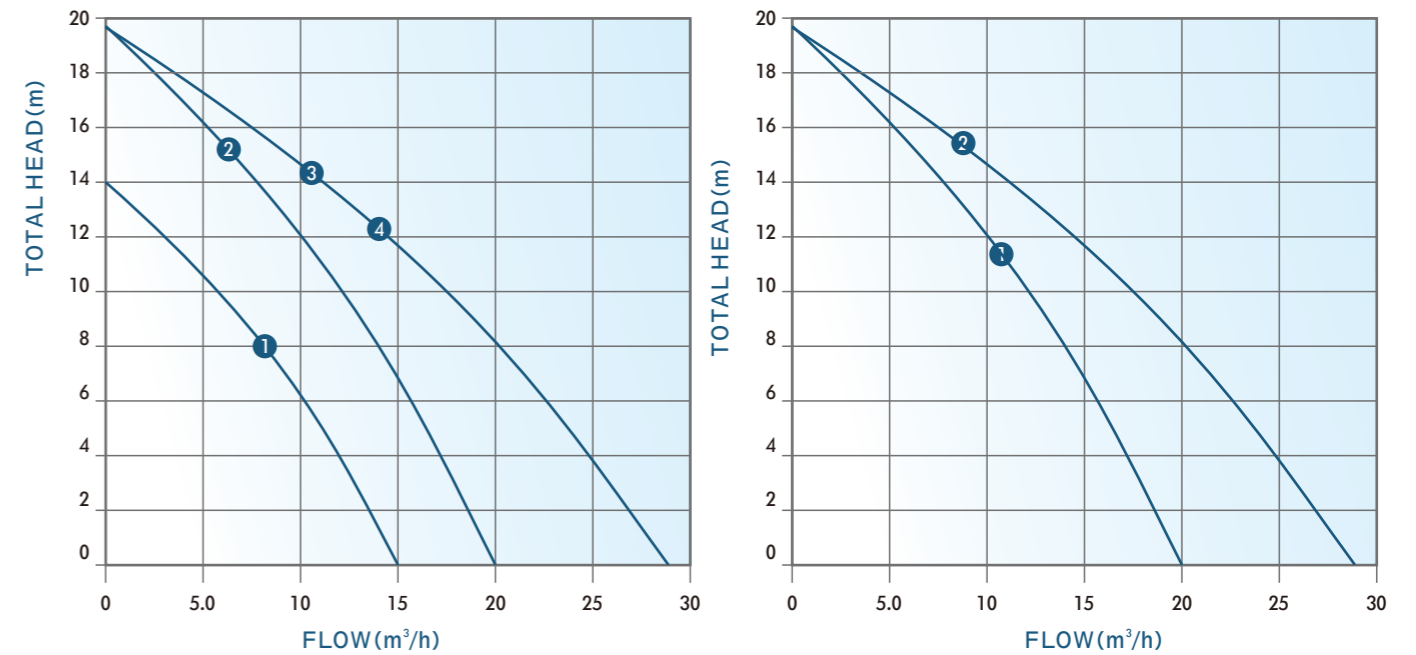
## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



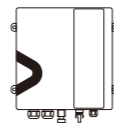
## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



## TECHNICAL DATA

Model	Pump Voltage	Open circuit Voltage (SYDC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Cable (m)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
								Power	Quantity (pcs)	Power (W)	Connection
1 CS-DJET2.5-35-48-370	48V	60V-90V	370W	2.5	35	1"×1"	2	100V	2	250	
2 CS-DJET2.7-45-48-550	48V	60V-90V	550W	2.5	45	1"×1"	2	100V	2	330	
3 CS-DJET3.0-55-48-750	48V	60V-90V	750W	3	55	1"×1"	2	100V	4	250	
4 CS-DJET3.0-55-72-750	72V	90V-120V	750W	3	55	1"×1"	2	150V	3	330	



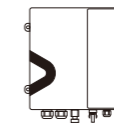
- H AC/AC/DC HYBRID COMPLEMENTARITY CONTROLLER
- A AC/AC/DC AUTOMATIC SWITCHING CONTROLLER
- M MANUAL CONTROLLER

## TECHNICAL DATA

Model	Pump Voltage (AC)	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
							Power	Quantity (pcs)	Power (W)	Connection
1 CS-DJET3-55-110-750(A/H/M)	85V-280V	108V-430V	750W	3	55	1"×1"	< 430V	3	340	

## TECHNICAL DATA

Model	Pump Voltage	Open circuit Voltage (SYDC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Cable (m)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
								Power	Quantity (pcs)	Power (W)	Connection
1 CS-DLP15-14-48-500	48V	60V-90V	550W	15	14	2"×2"	2	100V	2	330	
2 CS-DLP20-19-72-900	72V	90V-120V	900W	20	19	2"×2"	2	150V	3	390	
3 CS-DLP27-19-72-1200	72V	90V-120V	1200W	27	19	3"×3"	2	150V	6	300	
4 CS-DLP27-19-110-1200	110V	110V-150V	1200W	27	19	3"×3"	2	200V	8	300	



- H AC/AC/DC HYBRID COMPLEMENTARITY CONTROLLER
- A AC/AC/DC AUTOMATIC SWITCHING CONTROLLER
- M MANUAL CONTROLLER

## TECHNICAL DATA

Model	Pump Voltage (AC)	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
							Power	Quantity (pcs)	Power (W)	Connection
1 CS-DLP20-19-150-900(A/H/M)	85V-280V	108V-430V	900W	20	19	2"×2"	< 430V	4	340	
2 CS-DLP27-19-200-1200(A/H/M)	85V-280V	108V-430V	1200W	27	19	3"×3"	< 430V	5	340	

# DC With Controller Solar Pump

Brushless Controller



## 3CSBL WITH BUILT IN CONTROLLER

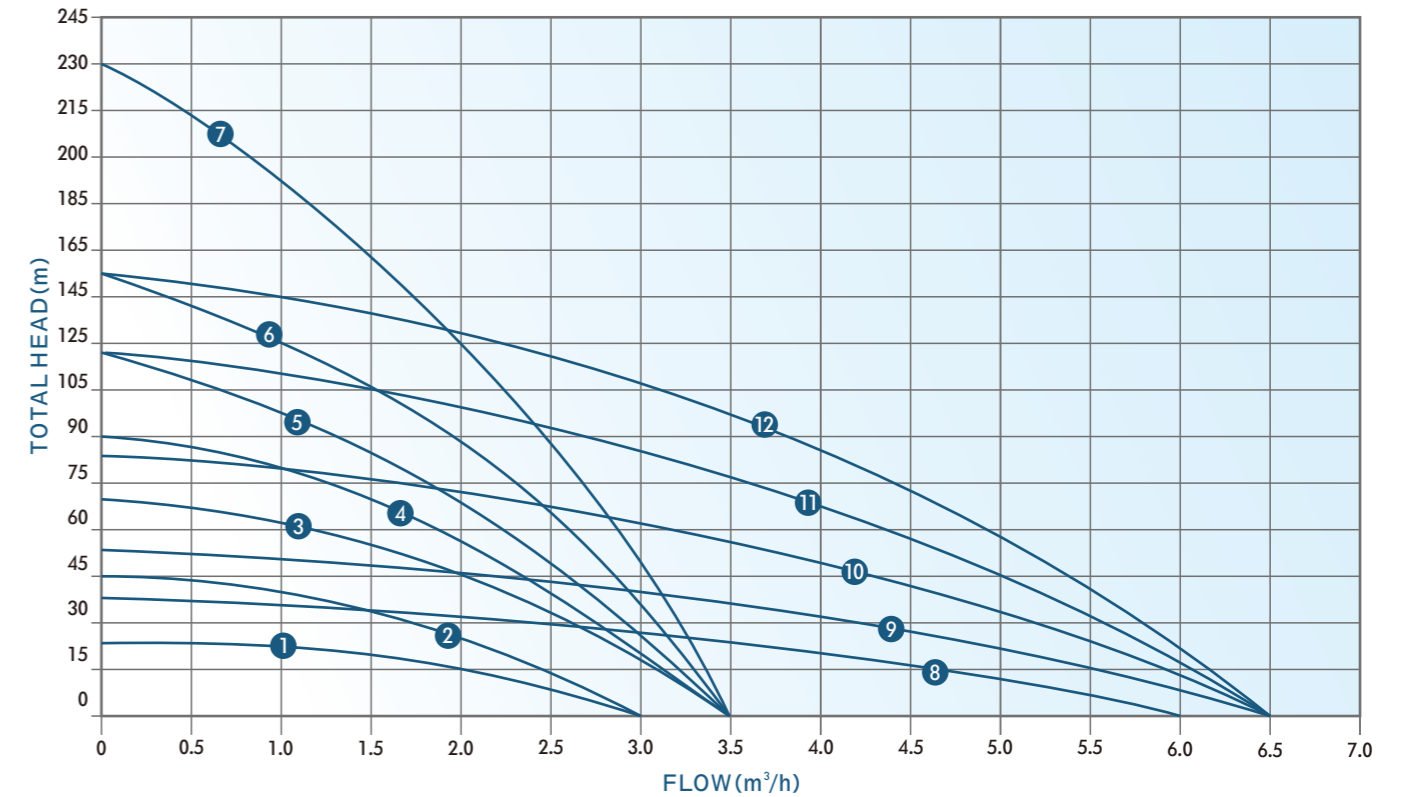
PLASTIC IMPELLER SOLAR WATER PUMP  
CONTROLLER BUILT-INSIDE

### Material Of Pump

- ~Outlet: stainless Steel
- ~Pump Head / Pump Body : Stainless Steel
- ~Impeller : Pp-Plastic / Stainless Steel
- ~Screw: Rubber + Stainless Steel
- ~Motor : Permanent Magnet DC Brushless motor
- ~Oil Cooling
- ~MPPT Function Controller Inside

### HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



### TECHNICAL DATA

Model	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Open circuit Voltage (VOC)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
							Power	Quantity (pcs)	Power (W)	Connection
① 3CSBI3/25-24/300	24V	300	3	25	1"	<145V	>390W	1	330	
② 3CSBI3/45-48/400	48V	400	3	45	1"	<145V	>520W	2	250	
③ 3CSBI3.5/70-72/600	72V	600	3.5	70	1"	<145V	>780W	3	250	
④ 3CSBI3.5/90-96/750	96V	750	3.5	90	1"	<145V	>975W	4	250	
⑤ 3CSBI3.5/120-144/1100	144V	1100	3.5	120	1"	<145V	>1430W	4	330	
⑥ 3CSBI3.5/150-192/1500	192V	1500	3.5	150	1"	<200V	>1950W	5	330	
⑦ 3CSBI3.5/230-280/2200	280V	2200	3.5	230	1"	<200V	>2860W	7	330	
⑧ 3CSBI6/40-72/600	72V	600	6	40	1"	<145V	>780W	3	250	
⑨ 3CSBI6.5/55-96/750	96V	750	6.5	55	1"	<145V	>975W	4	250	
⑩ 3CSBI6.5/80-144/1100	144V	1100	6.5	80	1"	<145V	>1430W	4	330	
⑪ 3CSBI6.5/120-192/1500	192V	1500	6.5	120	1"	<145V	>1950W	5	330	
⑫ 3CSBI6.5/160-280/2200	280V	2200	6.5	160	1"	<200V	>2860W	7	330	

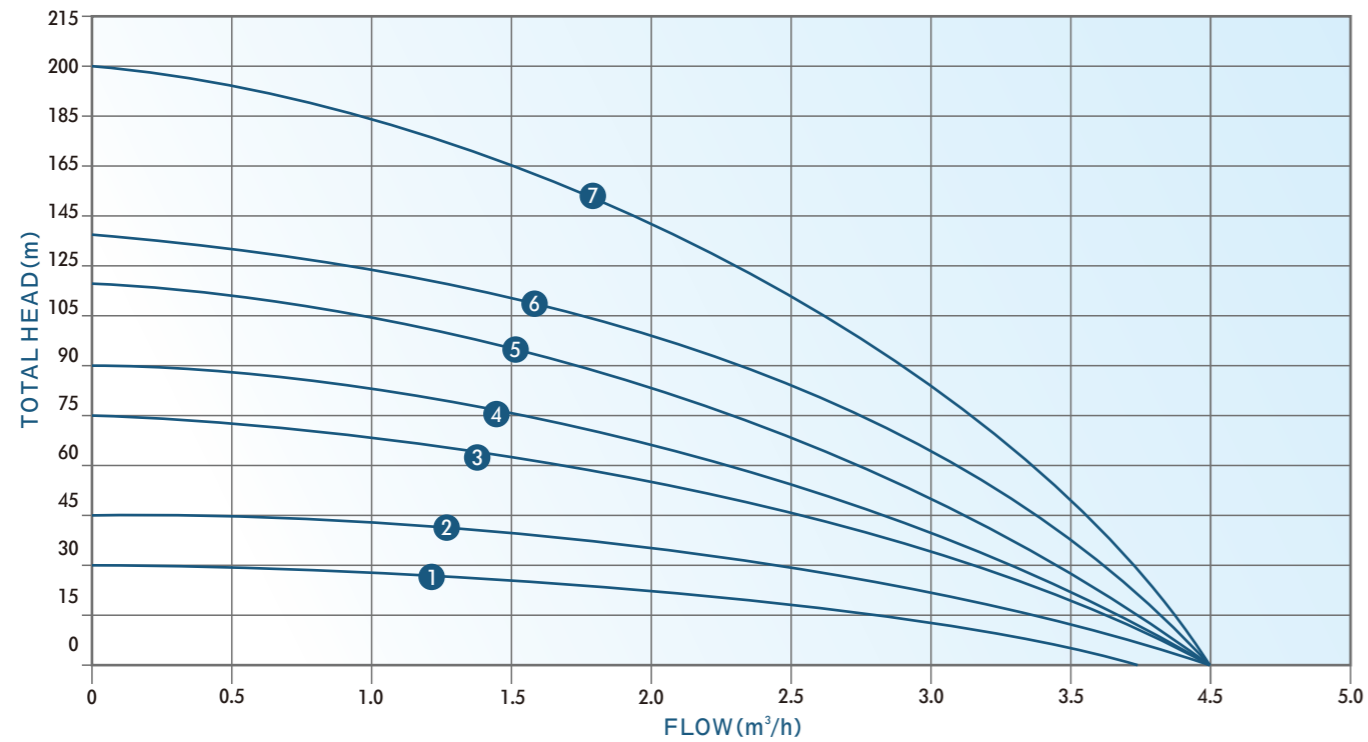
# 3CSSSI

STAINLESS STEEL IMPELLER SOLAR WATER PUMP  
CONTROLLER BUILT-INSIDE



## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



## TECHNICAL DATA

Model	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Open circuit Voltage (VOC)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
							Power	Quantity (pcs)	Power (W)	Connection
1 3CSSSI4/30-24/300	24V	300	4	30	1.25"	<145V	>390W	1	330	
2 3CSSSI4.5/45-48/400	48V	400	4.5	45	1.25"	<145V	>520W	2	250	
3 3CSSSI4.5/75-72/600	72V	600	4.5	75	1.25"	<145V	>780W	3	250	
4 3CSSSI4.5/90-96/750	96V	750	4.5	90	1.25"	<145V	>975W	4	250	
5 3CSSSI4.5/110-144/1100	144V	1100	4.5	110	1.25"	<145V	>1430W	4	330	
6 3CSSSI4.5/130-192/1500	192V	1500	4.5	130	1.25"	<200V	>1950W	5	330	
7 3CSSSI4.5/200-280/2200	280V	2200	4.5	200	1.25"	<200V	>2860W	7	330	

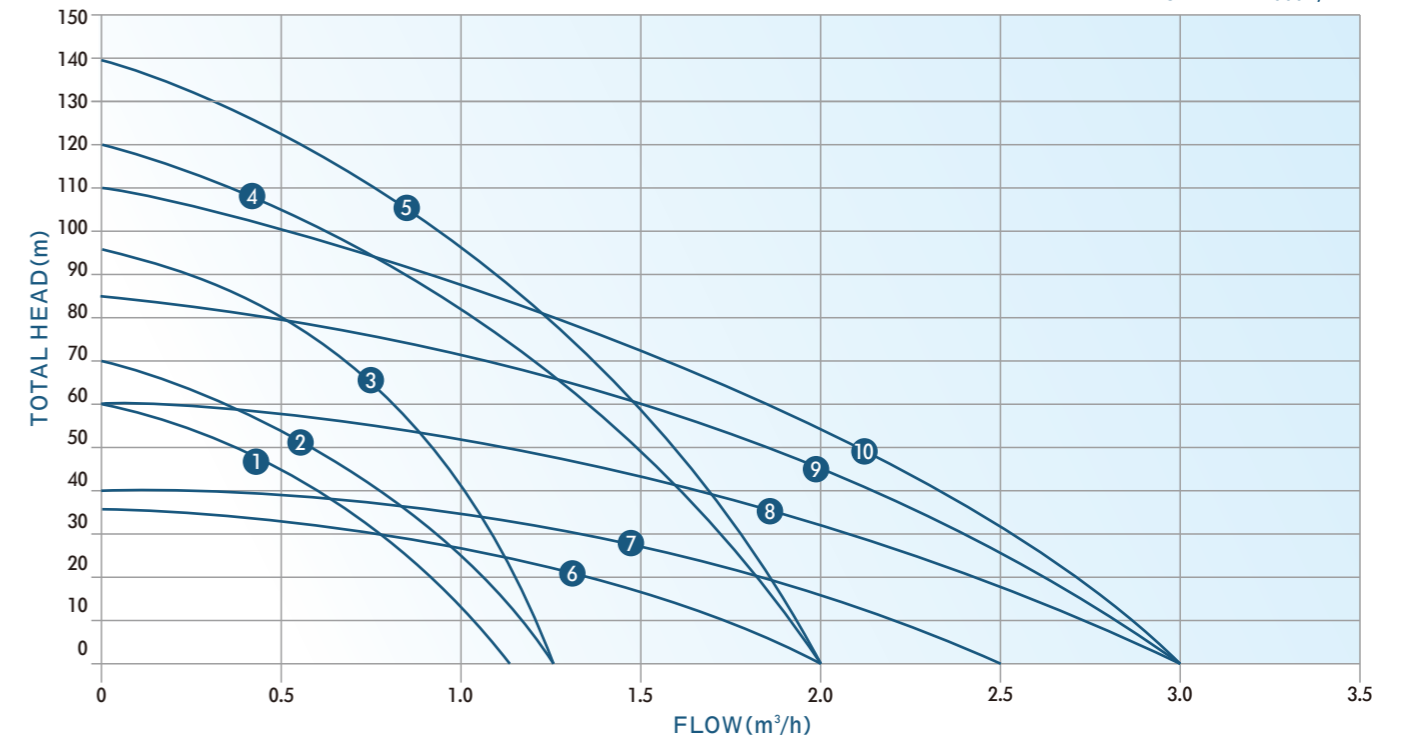
# 3CSBS

SCREW SOLAR WATER PUMP  
CONTROLLER BUILT-INSIDE



## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



## TECHNICAL DATA

Model	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Open circuit Voltage (VOC)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
							Power	Quantity (pcs)	Power (W)	Connection
1 3CSBS1.2/60-24/180	24V	180	1.2	60	0.75"	<145V	>250W	1	250	
2 3CSBS1.3/70-24/250	24V	250	1.3	70	0.75"	<145V	>325W	1	330	
3 3CSBS1.3/95-48/400	48V	400	1.3	95	0.75"	<145V	>520W	2	250	
4 3CSBS2/120-72/600	72V	600	2	120	0.75"	<145V	>780W	3	250	
5 3CSBS2/140-96/750	96V	750	2	140	0.75"	<145V	>975W	4	250	
6 4CSBS2/35-24/180	24V	180	2	35	1"	<145V	>250W	1	250	
7 4CSBS2.5/40-24/250	24V	250	2.5	40	1"	<145V	>325W	1	330	
8 4CSBS3/60-48/400	48V	400	3	60	1"	<145V	>520W	2	250	
9 4CSBS3/85-72/600	72V	600	3	85	1"	<145V	>780W	3	250	
10 4csBS3/110-96/750	96V	750	3	110	1"	<145V	>975W	4	250	

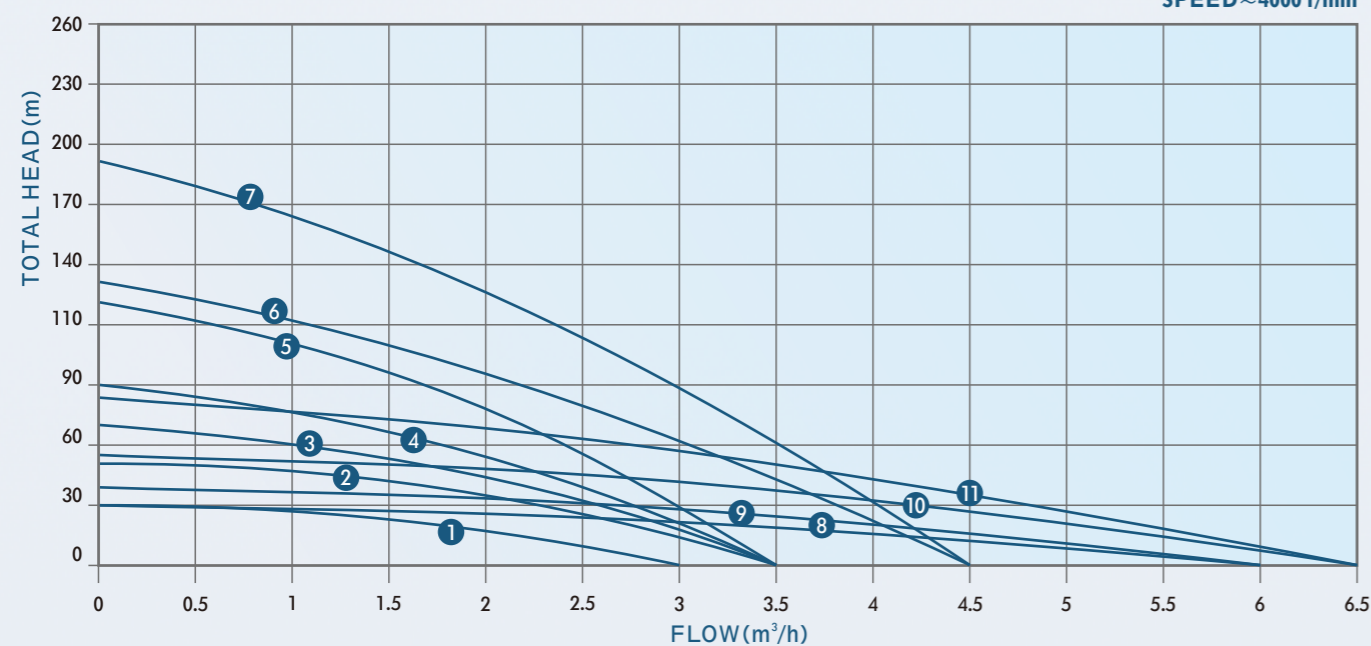
# 4CSBI

PLASTIC IMPELLER SOLAR WATER PUMP  
CONTROLLER BUILT-INSIDE

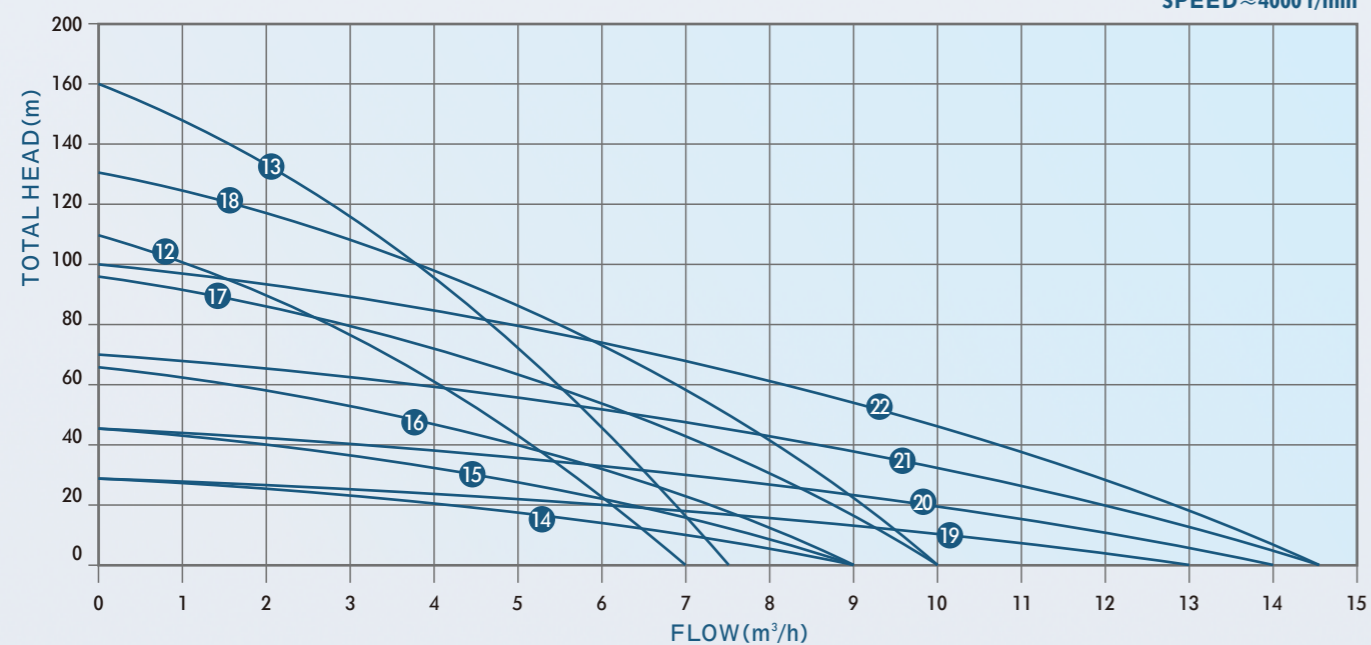


## HYDRAULIC PERFORMANCE CURVES

SPEED  $\approx$  4000 r/min



SPEED  $\approx$  4000 r/min



## TECHNICAL DATA

Model	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Open circuit Voltage (VOC)	Solar Panels Suggestion ( $\geq 1.3 \times$ PUMP POWER)			
							Power	Quantity (pcs)	Power (W)	Connection
1 4CSBI3/30-24/300	24V	300	3	30	1.25"	<145V	>390W	1	330	
2 4CSBI3.5/50-48/400	48V	400	3.5	50	1.25"	<145V	>520W	2	250	
3 4CSBI3.5/70-72/600	72V	600	3.5	70	1.25"	<145V	>780W	3	250	
4 4CSBI3.5/90-96/750	96V	750	3.5	90	1.25"	<145V	>975W	4	250	
5 4CSBI3.5/120-144/1100	144V	1100	3.5	120	1.25"	<145V	>1430W	4	330	
6 4CSBI4.5/130-192/1500	192V	1500	4.5	130	1.25"	<200V	>1950W	5	330	
7 4CSBI4.5/190-280/2200	280V	2200	4.5	190	1.25"	<200V	>2860W	7	330	
8 4CSBI6/30-48/400	48V	400	6	30	1.5"	<145V	>520W	2	250	
9 4CSBI6/40-72/600	72V	600	6	40	1.5"	<145V	>780W	3	250	
10 4CSBI6.5/55-96/750	96V	750	6.5	55	1.5"	<145V	>975W	4	250	
11 4CSBI6.5/85-144/1100	144V	1100	6.5	85	1.5"	<145V	>1430W	4	330	
12 4CSBI7/110-192/1500	192V	1500	7	110	1.5"	<200V	>1950W	5	330	
13 4CSBI7.5/160-280/2200	280V	2200	7.5	160	1.5"	<200V	>2860W	7	330	
14 4CSBI9/30-72/600	72V	600	9	30	2"	<145V	>780W	3	250	
15 4CSBI9/45-96/750	96V	750	9	45	2"	<145V	>975W	4	250	
16 4CSBI9/65-144/1100	144V	1100	9	65	2"	<145V	>1430W	4	330	
17 4CSBI10/95-192/1500	192V	1500	10	95	2"	<200V	>1950W	5	330	
18 4CSBI10/130-280/2200	280V	2200	10	130	2"	<200V	>2860W	7	330	
19 4CSBI13/30-96/750	96V	750	13	30	2"	<145V	>975W	4	250	
20 4CSBI14/45-144/1100	144V	1100	14	45	2"	<145V	>1430W	4	330	
21 4CSBI14.5/70-192/1500	192V	1500	14.5	70	2"	<200V	>1950W	5	330	
22 4CSBI14.5/100-280/2200	280V	2200	14.5	100	2"	<200V	>2860W	7	330	

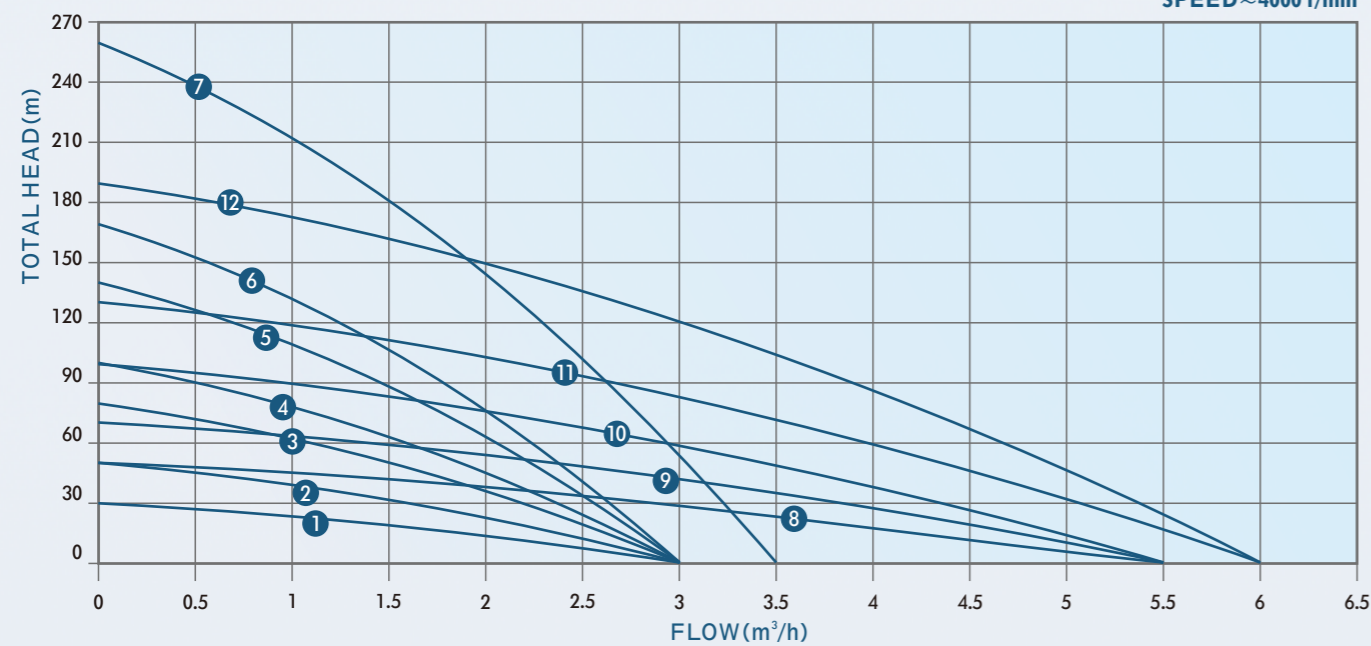
# 4CSSSI

STAINLESS STEEL IMPELLER  
SOLAR WATER PUMP  
CONTROLLER BUILT-INSIDE

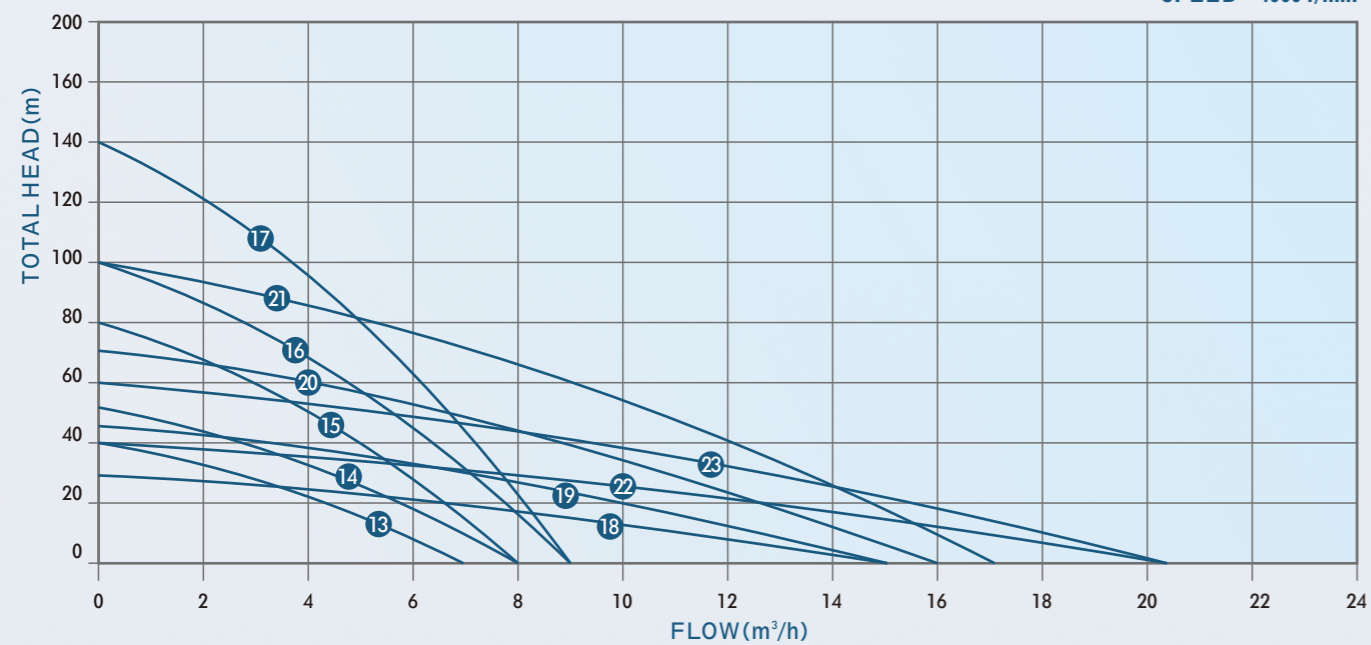


## HYDRAULIC PERFORMANCE CURVES

SPEED ≈ 4000 r/min



SPEED ≈ 4000 r/min



## TECHNICAL DATA

Model	Pump Voltage (DC)	Power (W)	Max. Flow (m³/h)	Max. Head (m)	Outlet (in)	Open circuit Voltage (VOC)	Solar Panels Suggestion (≥1.3*PUMP POWER)			
							Power	Quantity (pcs)	Power (W)	Connection
1 4CSSSI3/30-24/300	24V	300	3	30	1.25"	<145V	>390W	1	330	
2 4CSSSI3/50-48/400	48V	400	3	50	1.25"	<145V	>520W	2	250	
3 4CSSSI3/80-72/600	72V	600	3	80	1.25"	<145V	>780W	3	250	
4 4CSSSI3/100-96/750	96V	750	3	100	1.25"	<145V	>975W	4	250	
5 4CSSSI3/140-144/1100	144V	1100	3	140	1.25"	<145V	>1430W	4	330	
6 4CSSSI3/170-192/1500	192V	1500	3	170	1.25"	<200V	>1950W	5	330	
7 4CSSSI3.5/260-280/2200	280V	2200	3.5	260	1.25"	<200V	>2860W	7	330	
8 4CSSSI5.5/50-72/600	72V	600	5.5	50	1.25"	<145V	>780W	3	250	
9 4CSSSI5.5/70-96/750	96V	750	5.5	70	1.25"	<145V	>975W	4	250	
10 4CSSSI5.5/100-144/1100	144V	1100	5.5	100	1.25"	<145V	>1430W	4	330	
11 4CSSSI6/130-192/1500	192V	1500	6	130	1.25"	<200V	>1950W	5	330	
12 4CSSSI6/190-280/2200	280V	2200	6	190	1.25"	<200V	>2860W	7	330	
13 4CSSSI7/40-72/600	72V	600	7	40	1.5"	<145V	>780W	3	250	
14 4CSSSI8/50-96/750	96V	750	8	50	1.5"	<145V	>975W	4	250	
15 4CSSSI8/80-144/1100	144V	1100	8	80	1.5"	<145V	>1430W	4	330	
16 4CSSSI9/100-192/1500	192V	1500	9	100	1.5"	<200V	>1950W	5	330	
17 4CSSSI9/140-280/2200	280V	2200	9	140	1.5"	<200V	>2860W	7	330	
18 4CSSSI15/30-96/750	96V	750	15	30	2"	<145V	>975W	4	250	
19 4CSSSI15/45-144/1100	144V	1100	15	45	2"	<145V	>1430W	4	330	
20 4CSSSI16/70-192/1500	192V	1500	16	70	2"	<200V	>1950W	5	330	
21 4CSSSI17/100-280/2200	280V	2200	17	100	2"	<200V	>2860W	7	330	
22 4CSSSI21/40-192/1500	192V	1500	21	40	2"	<200V	>1950W	5	330	
23 4CSSSI21/60-280/2200	280V	2200	21	60	2"	<200V	>2860W	7	330	

# CSBL

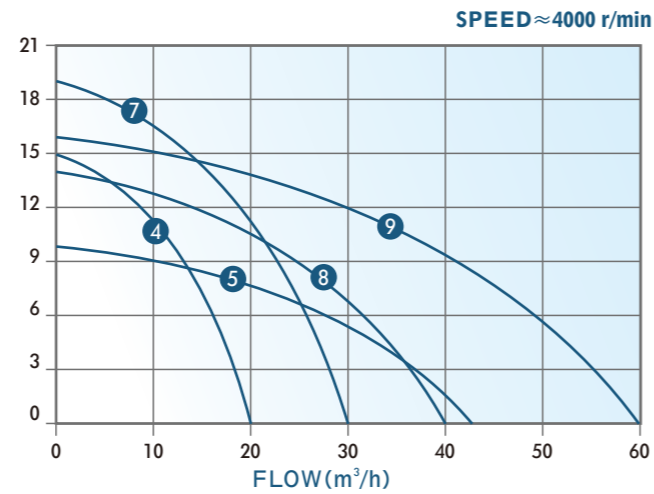
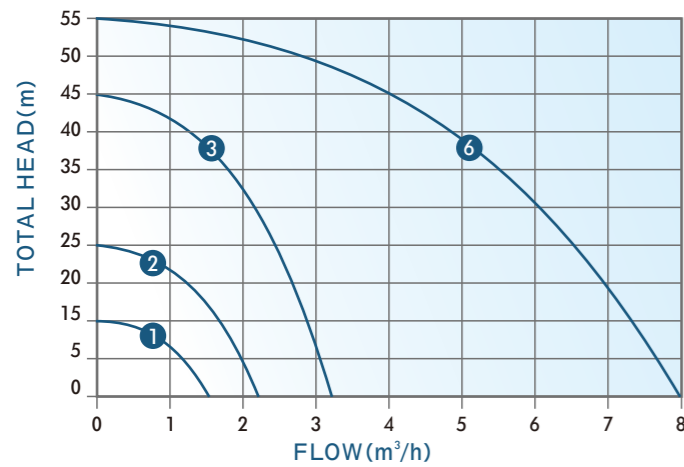
DC SOLAR PUMP  
BRUSHLESS TYPE



### Product introduction

- © 100% Copper wire motor
- © Dc solar water pump used controller inside
- © It can work with battery directly as well.

### HYDRAULIC PERFORMANCE CURVES



### TECHNICAL DATA

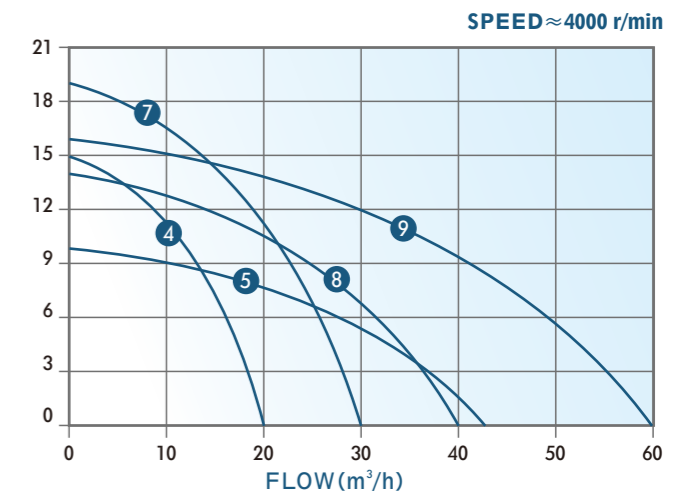
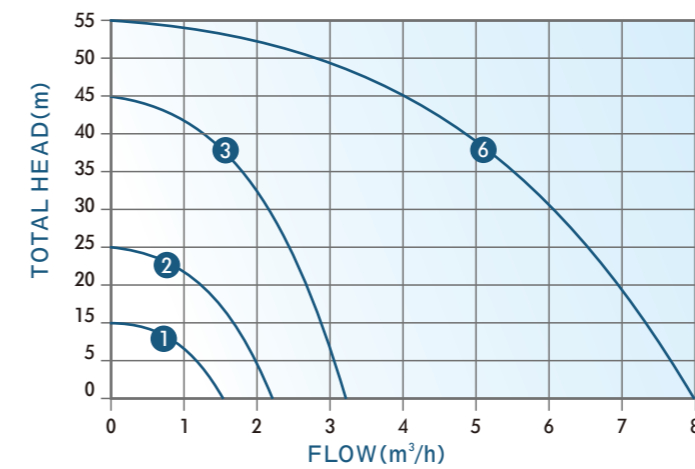
ITEM NO.	Voltage (V)	Power (w)	Max Flow (m³/h)	Max Head (m)	Outlet (INCH)	Cabel (m)
1 CSBL-QB1.5-15-12-180	DC12V	180W	1.5	15	1	1
2 CSBL-QB2.2-25-24-370	DC24V	370W	2.2	25	1	1
3 CSBL-QB70	DC72V	550W	3.2	45	1	1
4 CSBL-50	DC48V	1200	20	15	2	1
5 CSBL-80	DC72V	1500	42	10	3	1
6 CSBL-100	DC96V	2200	55	8	4	1
7 CSBL-1200-2	DC48V	1200	30	19.5	2	1
8 CSBL-1500-3	DC72V	1500	40	14	3	1
9 CSBL-2200-4	DC96V	2200	60	16	4	1

# CSDC

DC SOLAR PUMP BRUSH TYPE



### HYDRAULIC PERFORMANCE CURVES



### TECHNICAL DATA

ITEM NO.	Voltage (V)	Power (w)	Max Flow (m³/h)	Max Head (m)	Outlet (INCH)	Cabel (m)
1 CSDC-QB1.5-15-12-180	DC12V	180W	1.5	15	1	1
2 CSDC-QB2.2-25-24-370	DC24V	370W	2.2	25	1	1
3 CSDC-QB70	DC72V	550W	3.2	45	1	1
4 CS-50	DC110V-160V	1200	20	15	2	1
5 CS-80	DC150V-200V	1500	42	10	3	1
6 CS-100	DC180V-220V	2200	55	8	4	1
7 CSDC-1200-2	DC110V-160V	1200	30	19.5	2	1
8 CSDC-1500-3	DC150V-200V	1500	40	14	3	1
9 CSDC-2200-4	DC180V-220V	2200	60	16	4	1
10 CSDCQY40-12-2.2	DC180V-270V	2200	40	12	3	1

