



BLDC Solar Pump Solution

Professional Solar Pump System Provider

Applications

- Solar agricultural irrigation
- Solar aeration systems
- Solar water treatment systems
- Desert control
- Livestock
- Scenic fountains and more



- CE, TUV, ISO9001, ISO14001, OHSAS18001
- National High-Tech Enterprises



Jntech Renewable Energy Co.,Ltd

📍 No.28 Taiyuan Road, Hefei Anhui, China

☎ +86 551-62930323

📠 +86 551-65393686

🌐 www.jntechenergy.com

✉ sales@jnnewenergy.com



ABOUT US

JNTECH RENEWABLE ENERGY CO., LTD

Founded in 2006, JNTECH RENEWABLE ENERGY CO., LTD is an international high-technology enterprise. It integrates the research and development, manufacture, sales and service of intelligent power electronics products in countries such as Pakistan, Kenya, Sudan, Dubai, Philippine, Morocco and Mexico.

Relying on the famous Chinese technology university's human resources and technical skills, JNTECH provides innovative products and technology through enterprise, university, and research cooperation. With more than 60 solar patents, we set the standard for solar in China and overseas. JNTECH-developed solar off-grid inverters, pumping inverters, household energy storage inverters and related systems are widely used in more than 60 countries. JNTECH has been listed in the bidding catalog as a preferred brand for international projects by the IBRD, the United Nations, FAO, and a wide variety of NGOs. Over the years, the JNTECH brand has become synonymous with quality and experience.

We strive to be the world's leading provider of intelligent solar energy products, solar irrigation and water treatment systems, and solar ecological treatment systems. Following our motto of "Creating a green-energy future, ensuring sustainable social development," JNTECH takes a scientific approach to creating green, eco-friendly new energy – not just as a business, but as our duty to our society, our nation, and the world.

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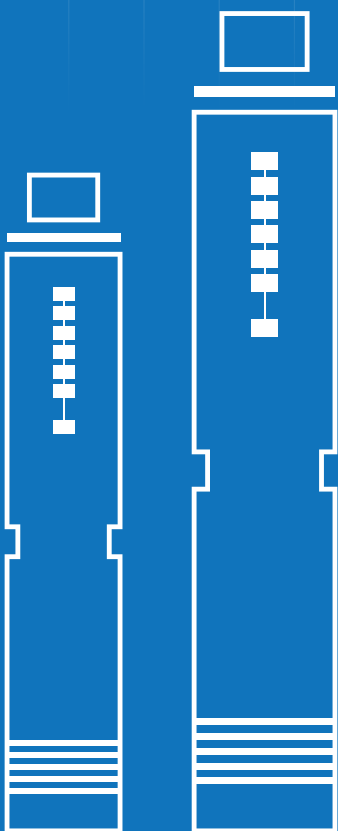
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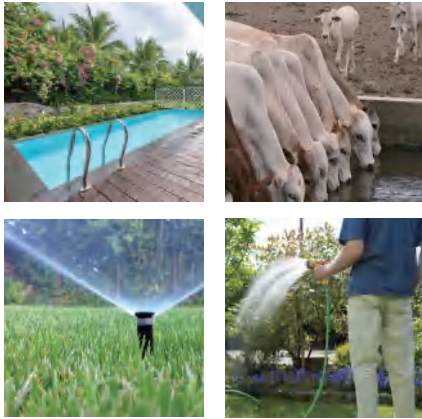
This brochure aims to introduce the BLDC solar pump solution, including the controller, water pump, model selection, and the configuration of the system's solar panels.

BLDC Solar Pump Solution



BLDC Solar Pump Solution

System application



System applications

The BLDC solar pump solution is designed for both short- and long-term water supply in diverse areas without electricity.

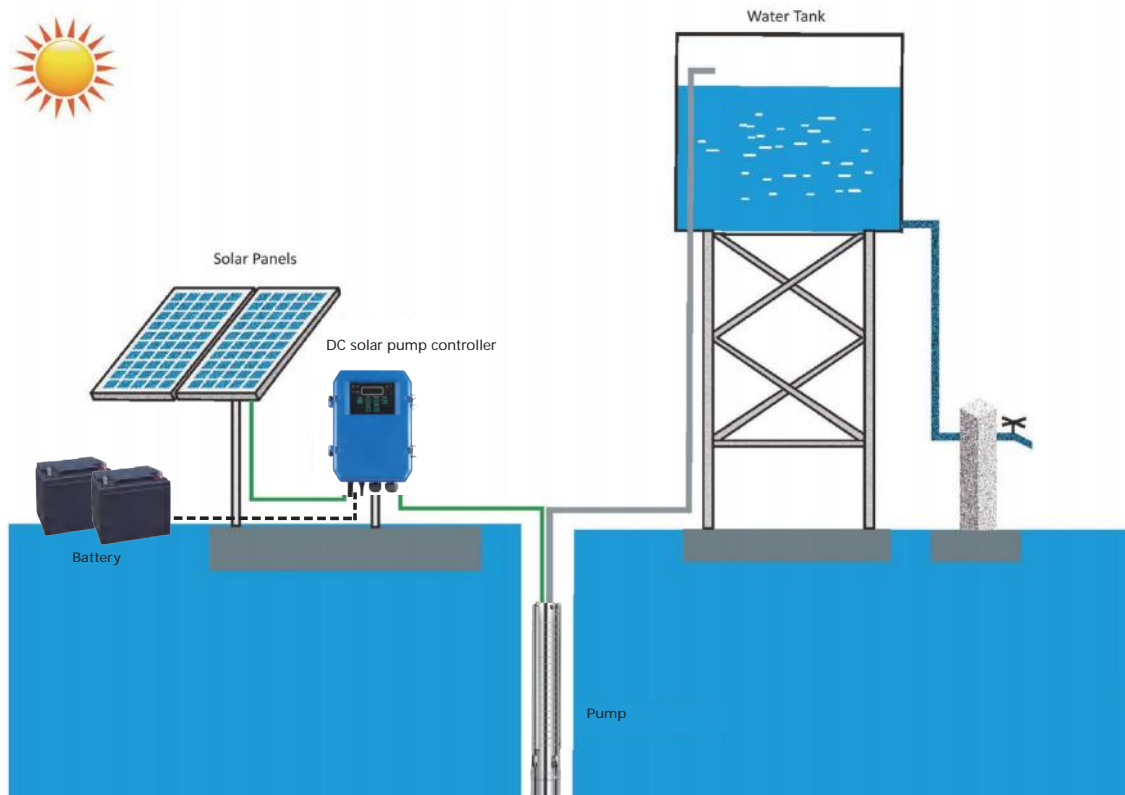
- Daily water usage
- Swimming pool water supply
- Small-scale agricultural irrigation
- Pasture animal husbandry
- Garden irrigation and more

BLDC solar pump solution includes:

- Solar panel
- Solar mounting structure
- Controller
- BLDC Solar pump
- Cable, pipe, etc
- battery (optional)

Core advantages:

- Solar panel: 25-year design life
- Pump & controller: 5-year design life
- IP65 protection level
- More than 10 layers of protection
- Easy to maintain, low cost
- Working temp. -15 °C ~ + 60 °C.





JNPD12~JNPD110



JNPD110-1500W~JNPD300-2500W

DC Solar Pump Controller

Operational range

- The controller should be installed in well-ventilated locations to facilitate heat dissipation.
- Adapter pumps: brushless DC pump

Power range

- For maximum 2200W water pump

DC solar pump controller features

- MPPT function for higher solar power utilization rate
- IP65 controller waterproof grade
- LED display for power, voltage, current, speed and other operational parameters
- Cloudy weather adaptation
- Soft start: No impulse current, protecting the pump motor
- High voltage/Low voltage/Over-current/High temperature protection
- Ambient temperature: -15°C~+60°C

DC solar pump controller parameter

Model	JNPD12	JNPD24	JNPD36	JNPD48	JNPD72	JNPD110	JNPD 110-1500	JNPD 150-1500	JNPD 200-1800	JNPD 300-2500
PV Input										
D.C. Max. Input Voltage	48V	48V	48V	96V	150V	180V	430V	430V	430V	430V
Recommended MPPT Voltage	30~48V	30~48V	30~48V	60~90V	90~120V	110~150V	110~150V	150~190V	200~240V	300~340V
D.C. Max. Input Current	15A	15A	15A	15A	15A	15A	17A	17A	17A	17A
Max. MPPT Efficiency	>99%	>99%	>99%	>99%	>99%	>99%	>99%	>99%	>99%	>99%
Number of String	1	1	1	1	1	1	1	1	1	1
Output										
Max. Motor Output Power	80W	120W	300W	750W	1100W	1300W	750W	1300W	1500W	2200W
Max. Speed	4000rpm									
System										
Protection Level	IP65									
Operating Temperature	-15~60°C									
Cooling Way	Nature cooling									
Display	LED									
Altitude	2000m, above 2000m need derate operating									
Noise Emission	<50dB									
Compliance	EN 50178; IEC/EN 62109-1;IEC61800									
Dimension (W/H/D)	238/180/95(mm)						243/235/110(mm)			
Weight	2kg						3kg			

AC/DC Solar Pump Controller



Operational range

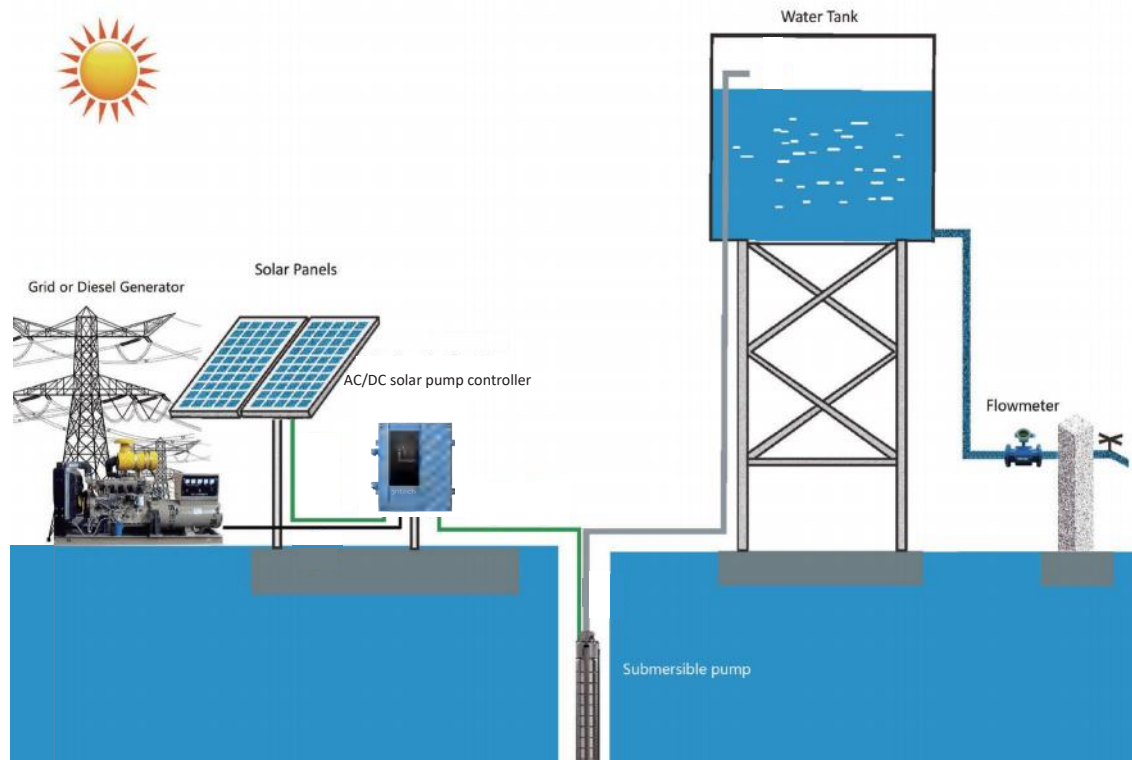
- Adapter pumps: brushless DC pump

Power range

- For maximum 4000W water pump

AC/DC solar pump controller features

- Strong overload capacity, can drive DC brushless water pump
- 99%+ efficiency with maximum power point tracking technology
- Wide MPPT input voltage range
- Fanless design, outdoor model, IP65 protection class, suitable for harsh application environments
- -15°C ~ +60°C operating range; Power derated above 60°C
- Utility grid/DG or photovoltaic input, automatic switching with PV priority, complementary energy usage to keep the pump running and achieve 24-hour water supply
- Complete system protection including undervoltage, overload, overvoltage, overcurrent, grid power phase lose, well dry, lost output phase, short circuit, and overheating
- Automatic operation control, soft start and soft stop, unattended operation



BLDC Solar Pump Solution

AC/DC Solar Pump Controller

AC/DC solar pump controller parameter

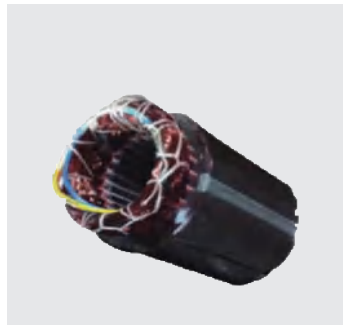
Model	JNPHA 110-1500	JNPHA 150-1500	JNPHA 200-1800	JNPHA 300-2500	JNPHA 380-3000	JNPHA 380-4000
PV Input						
Max. Input Voltage	DC420V				DC780V	
Recommended MPPT Voltage	110~400V	150~400V	200~400V	300~400V	520~650V	520~650V
D.C. Max. Input Current	10A	10A	10A	10A	17A	17A
Max. MPPT Efficiency	>99%	>99%	>99%	>99%	>99%	>99%
Number of String	1	1	1	1	1	1
A.C. Output						
Max. Motor Output Power	750W	1300W	1500W	2200W	3000W	4000W
Max. Speed	4000rpm					
A.C. Input						
Rated Voltage	Single Phase 220Vac(±15%)				Three Phase 380Vac(±15%)	
Frequency	50Hz					
System						
Protection Level	IP65					
Operating Temperature	-15~60°C					
Cooling Way	Nature cooling					
Display	LED					
Altitude	3000m, above 3000m need derate operating					
Noise Emission	<50dB					
Compliance	EN 50178; IEC/EN 62109-1;IEC61000					
Dimension (W/H/D)	243/235/110(mm)				320/230/110(mm)	
Weight	3kg					

BLDC Solar Pump



Stainless-steel case

Strong and durable rust-resistant stainless-steel case



100% copper motor

All-copper motor, with overcurrent and pump overload protection device, for example in case of automatic stop



High-precision rotor

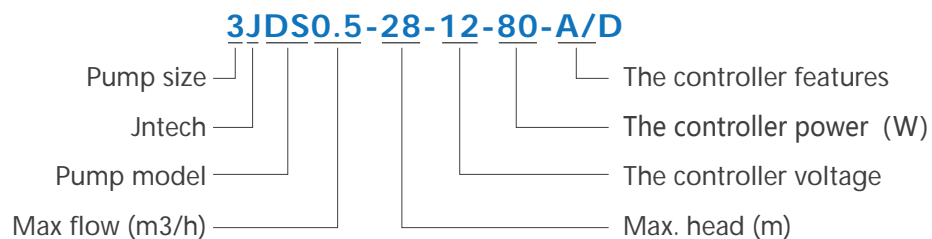
High-efficiency precision machining for stable operation and longer life



High-efficiency Japanese NSK bearing

Smooth, silent operation with lubricating oil for high load capacity and long life

Description of model names



- DS:** Screw solar pump with SS304 inlet/outlet
- DP:** Solar pump with plastic impeller
- DSS:** Solar pump with SS304 impeller
- DPh:** Solar pump with high flow high head



- DY:** Swimming pool solar pump
- DL:** Solar surface pump
- DH:** Hand-held solar surface pump



- A/D:** AC/DC
- WV:** Wide voltage DC
- DC:** Not marked

Packaging of solar pump controller & pump

Solar pump controller & pump



AC/DC solar pump controller & pump

JDS Series - SCREW SOLAR PUMP WITH SS304 INLET/OUTLET

Borehole pump, screw pump series, low flow and high lift.
Satisfy the essential water demands, water needs for humans and animals.



Screw



NSK Bearing



Stainless Steel Oil Cylinder



Free spare parts

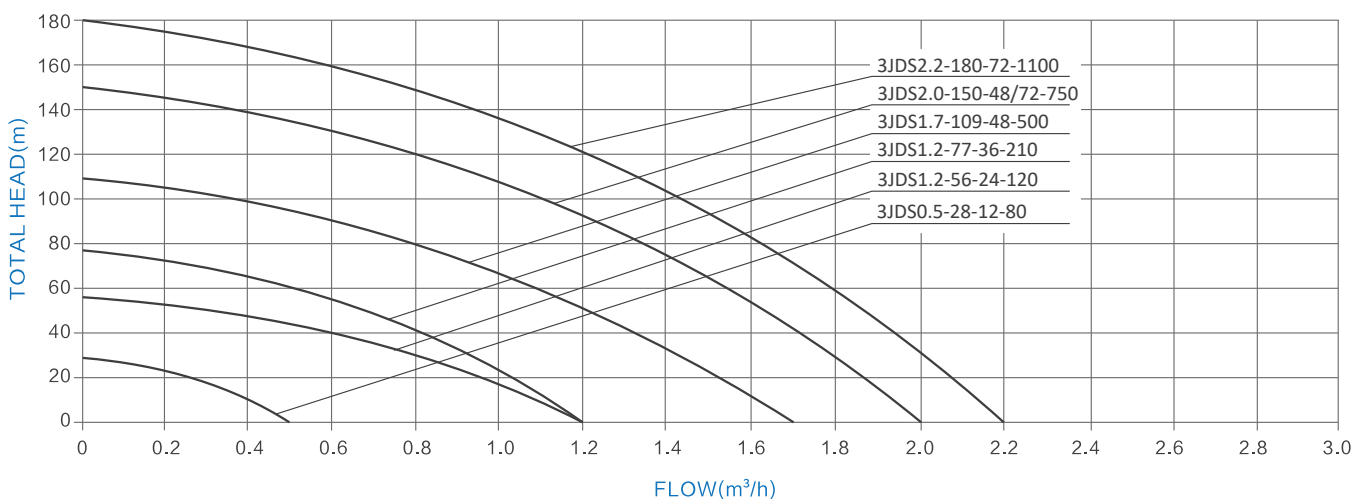
(Free spare parts may vary by model)

Technical Data

Item	Voltage	Power	Max.Flow (m ³ /h)	Rated Flow (m ³ /h)	Max. Head	Outlet	Cable	Solar Panel Configuration *
3JDS0.5-28-12-80	12V	80W	0.5	0.3	28m	0.75"	2m	01 03 14
3JDS1.2-56-24-120	24V	120W	1.2	0.7	56m	0.75"	2m	02 03 14
3JDS1.2-77-36-210	36V	210W	1.2	0.7	77m	0.75"	2m	02 03 14
3JDS1.7-109-48-500	48V	500W	1.7	0.9	109m	0.75"	2m	05 16
3JDS2.0-150-48/72-750	48V/72V	750W	2.0	1.1	150m	0.75"	2m	05 08 17 18 30
3JDS2.2-180-72-1100	72V	1100W	2.2	1.2	180m	0.75"	2m	07 08 18 19

* Note: For details refer to *Recommended system configurations (page 26)*

Hydraulic Performance Curves



JDP Series - SOLAR PUMP WITH PLASTIC IMPELLER

A borehole pump with plastic impeller series. Comes with stainless pump head standard. Best applied in locations with clean water. Perfect for irrigation.



Free spare parts
(Free spare parts may vary by model)

Technical Data

Item	Voltage	Power	Max.Flow (m ³ /h)	Rated Flow (m ³ /h)	Max. Head	Outlet	Cable	Solar Panel Configuration ★
2JDP1.5-35-24-200	24V	200W	1.5	0.8	35m	0.75"	2m	02 03 14
2JDP1.7-45-24-300	24V	300W	1.7	0.9	45m	0.75"	2m	04 14
2JDP1.7-64-48-400	48V	400W	1.7	0.9	64m	0.75"	2m	04 15
3JDP3-25-24-200	24V	200W	3.0	1.7	25m	1.25"	2m	02 03 14
3JDP3-35-24-300	24V	300W	3.0	1.7	35m	1.25"	2m	04 14
3JDP3.5-47-48-400	48V	400W	3.5	1.9	47m	1.25"	2m	04 15
3JDP3.5-80-48/72-600	48V/72V	600W	3.5	1.9	80m	1.25"	2m	05 06 17 18
3JDP3.5-95-48/72-750	48V/72V	750W	3.5	1.9	95m	1.25"	2m	05 08 17 18 30
3JDP3.8-123-72/110-1100	72V/110V	1100W	3.8	2.1	123m	1.25"	2m	07 08 18 19
3JDP3.8-155-110-1300	110V	1300W	3.8	2.1	155m	1.25"	2m	09 19 31
3JDP3.8-180-110-1500	110V	1500W	3.8	2.1	180m	1.25"	2m	09 20
3JDP5-45-48-500	48V	500W	5.0	2.8	45m	1.5"	2m	05 16
3JDP5.2-50-48/72-600	48V/72V	600W	5.2	2.9	50m	1.5"	2m	05 06 17 18
3JDP5.2-75-110-750	110V	750W	5.2	2.9	75m	1.5"	2m	08 18 30
3JDP5.5-65-72/110-750	72V/110V	750W	5.5	3.0	65m	1.5"	2m	08 18 30
3JDP6-84-110-1100	110V	1100W	6.0	3.3	84m	1.5"	2m	07 08 18 19
3JDP6-125-110-1500	110V	1500W	6.0	3.3	125m	1.5"	2m	09 20
4JDP6-42-48/72-600	48V/72V	600W	6.0	3.3	42m	1.25"	2m	05 06 17 18
4JDP6-56-48/72-750	48V/72V	750W	6.0	3.3	56m	1.25"	2m	05 08 17 18 30
4JDP6-84-72/110-1100	72V/110V	1100W	6.0	3.3	84m	1.25"	2m	07 08 18 19
4JDP6-112-110-1300	110V	1300W	6.0	3.3	112m	1.25"	2m	09 19 31
4JDP6-135-110-1500	110V	1500W	6.0	3.3	135m	1.25"	2m	09 20
3JDP7-46-72/110-750	72V/110V	750W	7.0	3.9	46m	1.5"	2m	08 18 30
3JDP7.5-62-110-1100	110V	1100W	7.5	4.1	62m	1.5"	2m	07 08 18 19
3JDP7.5-78-110-1500	110V	1500W	7.5	4.1	78m	1.5"	2m	09 20

★ Note: For details refer to Recommended system configurations (page 26)

Model selection

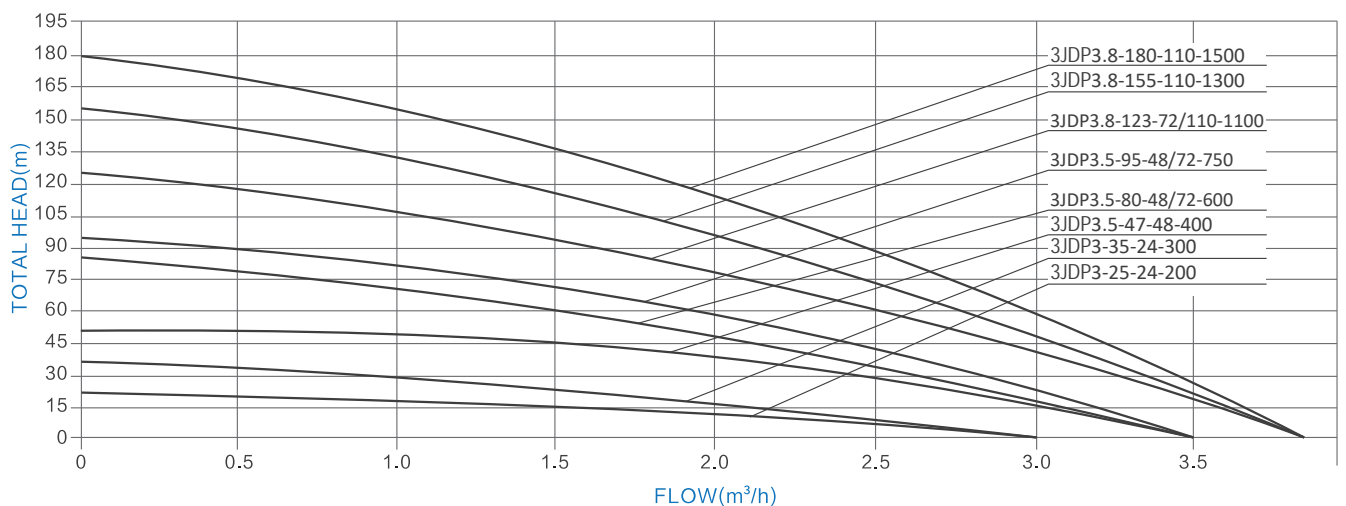
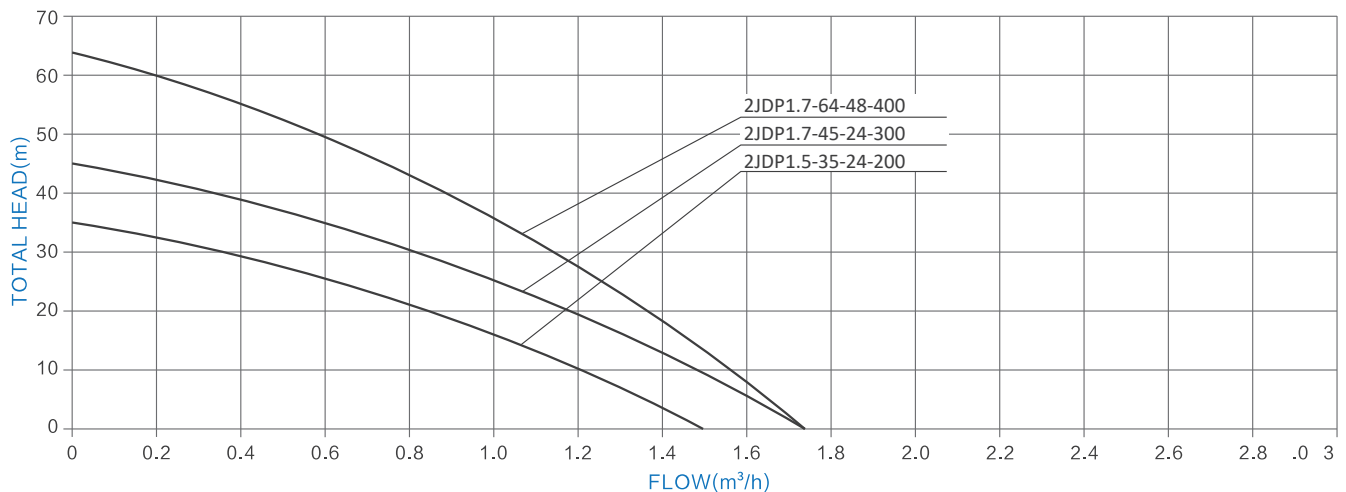
JDP Series - SOLAR PUMP WITH PLASTIC IMPELLER

Technical Data

Item	Voltage	Power	Max.Flow (m ³ /h)	Rated Flow (m ³ /h)	Max. Head	Outlet	Cable	Solar Panel Configuration *
4JDP9-45-110-750	110V	750W	9.0	5.0	45m	2"	2m	⓪1 ⓪3 ⓪14
4JDP9-58-110-1100	110V	1100W	9.0	5.0	58m	2"	2m	⓪7 ⓪8 ⓪18 ⓪19
4JDP9-71-110-1300	110V	1300W	9.0	5.0	71m	2"	2m	⓪9 ⓪19 ⓪31
4JDP9-85-110-1500	110V	1500W	9.0	5.0	85m	2"	2m	⓪9 ⓪20
4JDP13-36-110-750	110V	750W	13	7.2	36m	2"	2m	⓪8 ⓪18 ⓪30
4JDP13-49-110-1100	110V	1100W	13	7.2	49m	2"	2m	⓪7 ⓪8 ⓪18 ⓪19
4JDP13-54-110-1300	110V	1300W	13	7.2	54m	2"	2m	⓪9 ⓪19 ⓪31
4JDP13-60-110-1500	110V	1500W	13	7.2	60m	2"	2m	⓪9 ⓪20
4JDP17-48-110-1500	110V	1500W	17	9.4	48m	2"	2m	⓪9 ⓪20

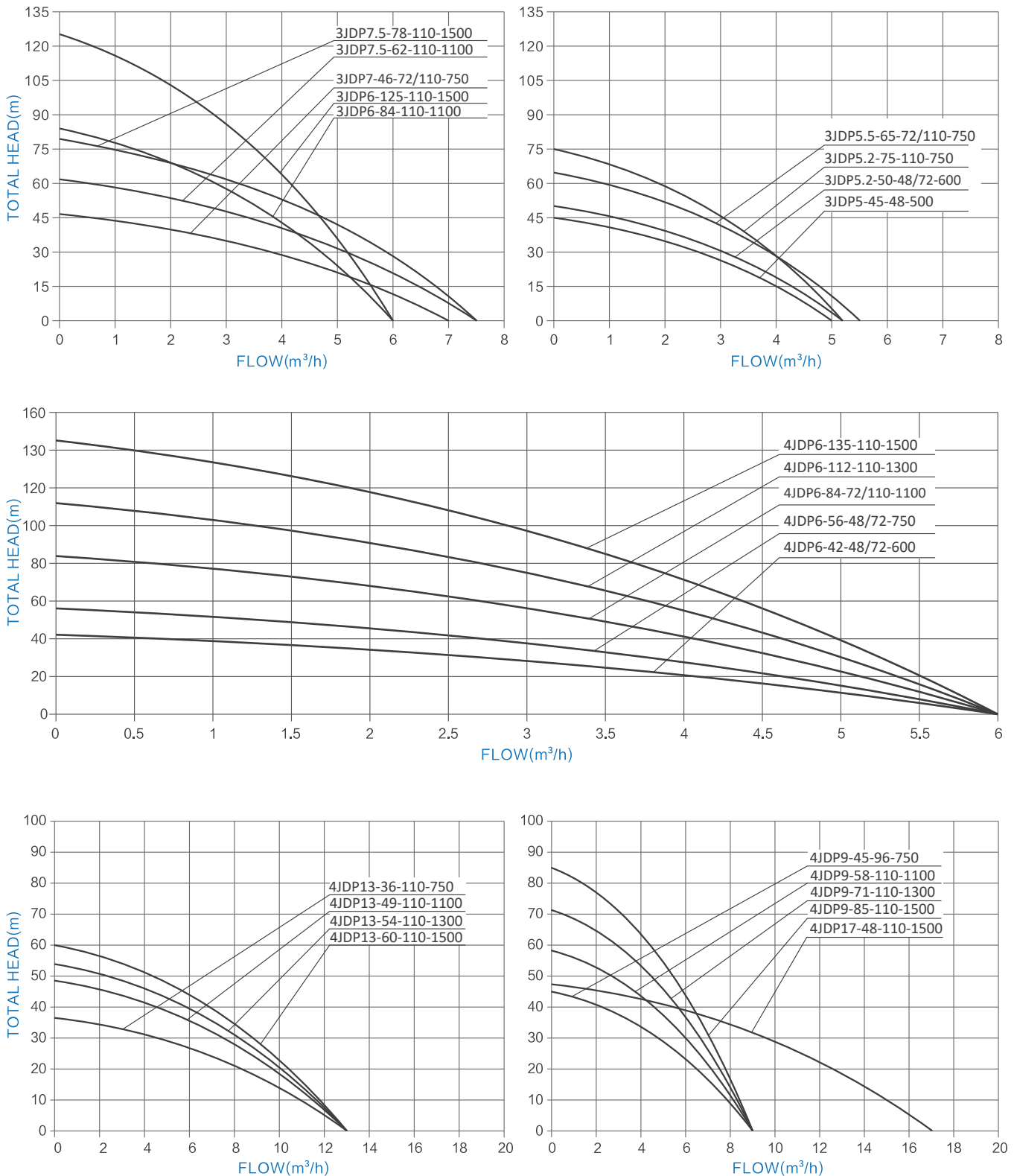
* Note: For details refer to *Recommended system configurations (page 26)*

Hydraulic Performance Curves



JDP Series - SOLAR PUMP WITH PLASTIC IMPELLER

Hydraulic Performance Curves



JDP Series - AC/DC , WV Series SOLAR PUMP WITH PLASTIC IMPELLER

A borehole pump with plastic impeller series. Comes with stainless pump head standard.
Best applied in locations with clean water. Perfect for irrigation.

Technical Data

Item	(AC) Voltage	Recommended MPPT Voltage	Power	Max. Flow (m ³ /h)	Rated Flow (m ³ /h)	Max. Head	Outlet	Cable	Solar Panel Configuration ★
3JDP3.5-95-110-750-A/D	85V-280V	110V-400V	750W	3.5	1.9	95	1.25"	2m	(21) (27) (31)
3JDP3.5-95-110-750-WV	N.A.	110V-150V							
3JDP3.8-123-150-1100-A/D	85V-280V	150V-400V	1100W	3.8	2.1	123	1.25"	2m	(22) (28) (31)
3JDP3.8-123-150-1100-WV	N.A.	150V-190V							
3JDP3.8-155-150-1300-A/D	85V-280V	150V-400V	1300W	3.8	2.1	155	1.25"	2m	(22) (28) (31)
3JDP3.8-155-150-1300-WV	N.A.	150V-190V							
3JDP3.8-180-200-1500-A/D	85V-280V	200V-400V	1500W	3.8	2.1	180	1.25"	2m	(10) (23) (29) (32)
3JDP3.8-180-200-1500-WV	N.A.	200V-240V							
3JDP5.2-75-110-750-A/D	85V-280V	110V-400V	750W	5.2	2.9	75	1.5"	2m	(21) (27) (31)
3JDP5.2-75-110-750-WV	N.A.	110V-150V							
3JDP5.5-65-110-750-A/D	85V-280V	110V-400V	750W	5.5	3.0	65	1.5"	2m	(21) (27) (31)
3JDP5.5-65-110-750-WV	N.A.	110V-150V							
4JDP6-56-110-750-A/D	85V-280V	110V-400V	750W	6	3.3	56	1.25"	2m	(21) (27) (31)
4JDP6-56-110-750-WV	N.A.	110V-150V							
3JDP6-84-150-1100-A/D	85V-280V	150V-400V	1100W	6	3.3	84	1.5"	2m	(22) (28) (31)
3JDP6-84-150-1100-WV	N.A.	150V-190V							
4JDP6-84-150-1100-A/D	85V-280V	150V-400V	1100W	6	3.3	84	1.25"	2m	(22) (28) (31)
4JDP6-84-150-1100-WV	N.A.	150V-190V							
4JDP6-112-150-1300-A/D	85V-280V	150V-400V	1300W	6	3.3	112	1.25"	2m	(22) (28) (31)
4JDP6-112-150-1300-WV	N.A.	150V-190V							
3JDP6-125-200-1500-A/D	85V-280V	200V-400V	1500W	6	3.3	125	1.5"	2m	(10) (23) (29) (32)
3JDP6-125-200-1500-WV	N.A.	200V-240V							
4JDP6-135-200-1500-A/D	85V-280V	300V-400V	2200W	6	3.3	175	1.25"	2m	(11) (24)
4JDP6-135-200-1500-WV	N.A.	300V-340V							
4JDP6-175-300-2200-A/D	85V-280V	200V-400V	1500W	6	3.3	135	1.25"	2m	(10) (23) (29) (32)
4JDP6-175-300-2200-WV	N.A.	200V-240V							
3JDP7-46-110-750-A/D	85V-280V	110V-400V	750W	7	3.9	46	1.5"	2m	(21) (27) (31)
3JDP7-46-110-750-WV	N.A.	110V-150V							
3JDP7.5-62-150-1100-A/D	85V-280V	150V-400V	1100W	7.5	4.1	62	1.5"	2m	(22) (28) (31)
3JDP7.5-62-150-1100-WV	N.A.	150V-190V							
3JDP7.5-78-200-1500-A/D	85V-280V	200V-400V	1500W	7.5	4.1	78	1.5"	2m	(10) (23) (29) (32)
3JDP7.5-78-200-1500-WV	N.A.	200V-240V							
4JDP9-45-110-750-A/D	85V-280V	110V-400V	750W	9	5.0	110	2"	2m	(21) (27) (31)
4JDP9-45-110-750-WV	N.A.	110V-150V							
4JDP9-58-150-1100-A/D	85V-280V	150V-400V	1100W	9	5.0	150	2"	2m	(22) (28) (31)
4JDP9-58-150-1100-WV	N.A.	150V-190V							
4JDP9-71-150-1300-A/D	85V-280V	150V-400V	1300W	9	5.0	150	2"	2m	(22) (28) (31)
4JDP9-71-150-1300-WV	N.A.	150V-190V							
4JDP9-85-200-1500-A/D	85V-280V	200V-400V	1500W	9	5.0	200	2"	2m	(10) (23) (29) (32)
4JDP9-85-200-1500-WV	N.A.	200V-240V							
4JDP9.5-125-300-2200-A/D	85V-280V	300V-400V	2200W	9.5	5.2	125	2"	2m	(11) (24)
4JDP9.5-125-300-2200-WV	N.A.	300V-340V							

★ Note: For details refer to *Recommended system configurations (page 26)*

JDP Series - AC/DC , WV Series SOLAR PUMP WITH PLASTIC IMPELLER

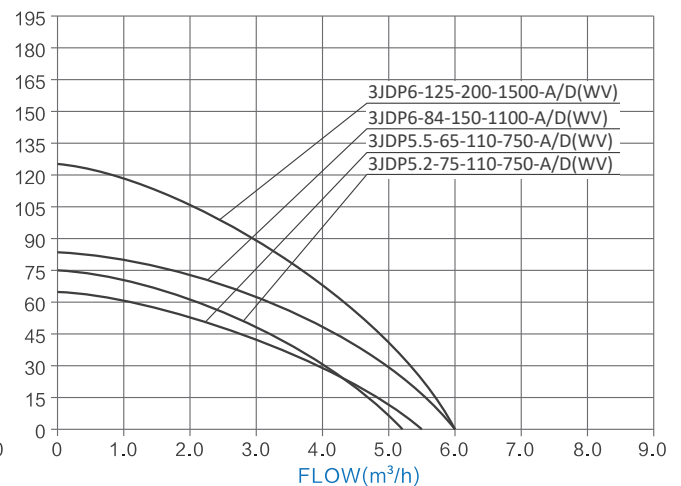
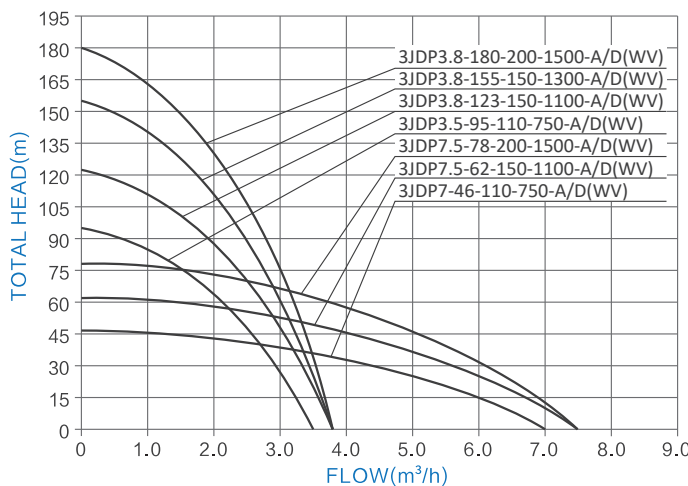
A borehole pump with plastic impeller series. Comes with stainless pump head standard.
Best applied in locations with clean water. Perfect for irrigation.

Technical Data

Item	(AC) Voltage	Recommended MPPT Voltage	Power	Max. Flow (m ³ /h)	Rated Flow (m ³ /h)	Max. Head	Outlet	Cable	Solar Panel Configuration ★
4JDP13-36-110-750-A/D	85V-280V	110V-400V	750W	13	7.2	36	2"	2m	②① ②⑦ ③①
4JDP13-36-110-750-WV	N.A.	110V-150V							
4JDP13-49-150-1100-A/D	85V-280V	150V-400V	1100W	13	7.2	49	2"	2m	②② ②⑧ ③①
4JDP13-49-150-1100-WV	N.A.	150V-190V							
4JDP13-54-150-1300-A/D	85V-280V	150V-400V	1300W	13	7.2	54	2"	2m	②② ②⑧ ③①
4JDP13-54-150-1300-WV	N.A.	150V-190V							
4JDP13-60-200-1500-A/D	85V-280V	200V-400V	1500W	13	7.2	60	2"	2m	⑩⑩ ②③ ②⑨ ③②
4JDP13-60-200-1500-WV	N.A.	200V-240V							
4JDP13-110-300-2200-A/D	85V-280V	300V-400V	2200W	13	7.2	110	2"	2m	⑪⑪ ②④
4JDP13-110-300-2200-WV	N.A.	300V-340V							
4JDP17-48-200-1500-A/D	85V-280V	200V-400V	1500W	17	9.4	48	2"	2m	⑩⑩ ②③ ②⑨ ③②
4JDP17-48-200-1500-WV	N.A.	200V-240V							

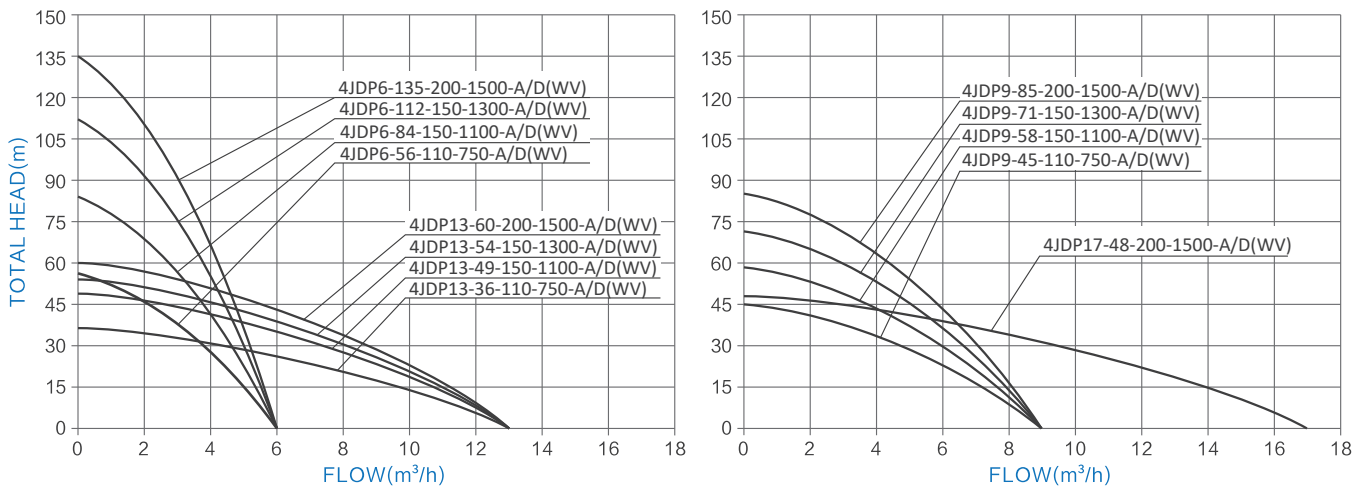
★ Note: For details refer to Recommended system configurations (page 26)

Performance Curves

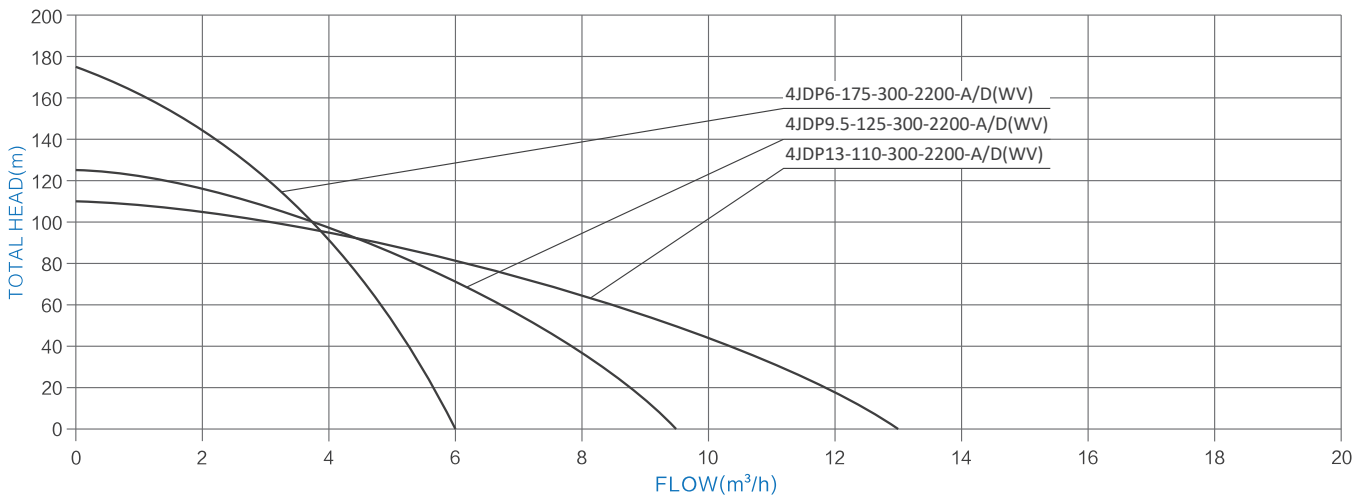


JDP Series - AC/DC , WV Series SOLAR PUMP WITH PLASTIC IMPELLER

Performance Curves



Hydraulic Performance Curves



JDSS Series - SOLAR PUMP WITH SS304 IMPELLER

Borehole pump with stainless-steel pump head. Can be used in areas with silt in water well.



3JDSS series 4JDSS series 4JDSS/4/6JDSS series



Free spare parts
(Free spare parts may vary by model)

Technical Data

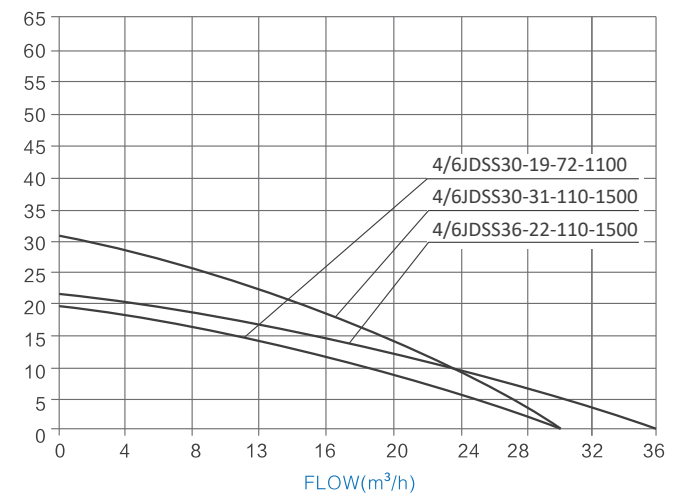
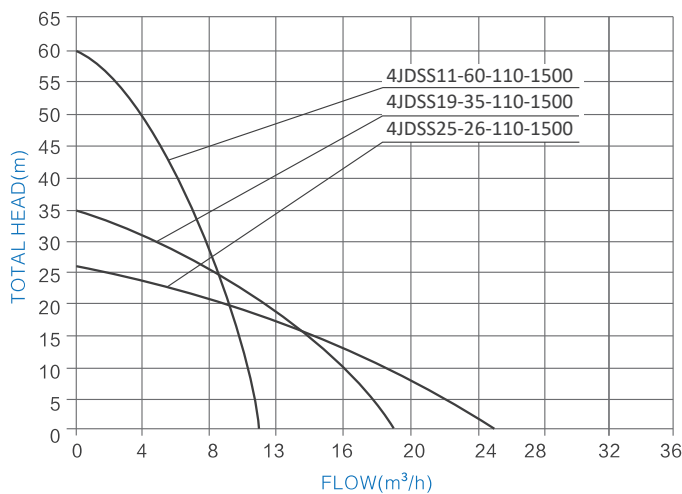
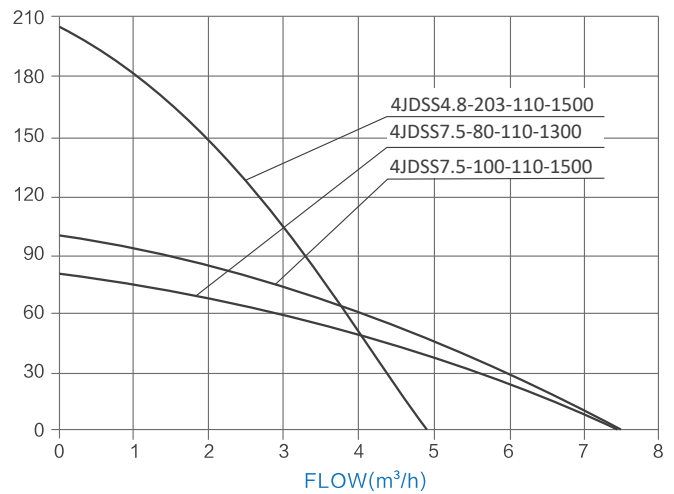
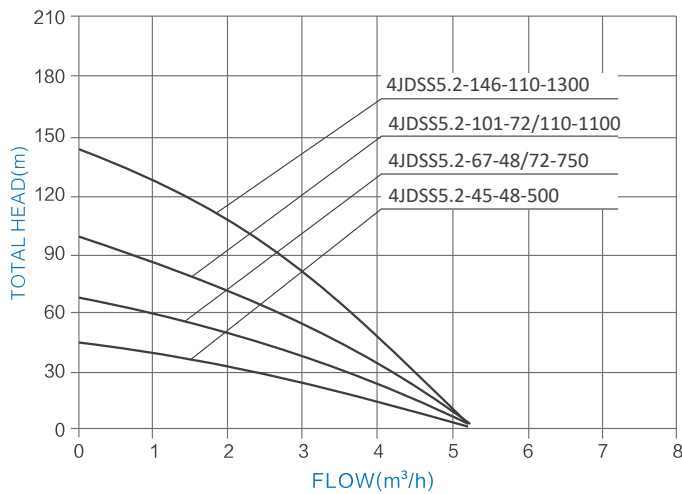
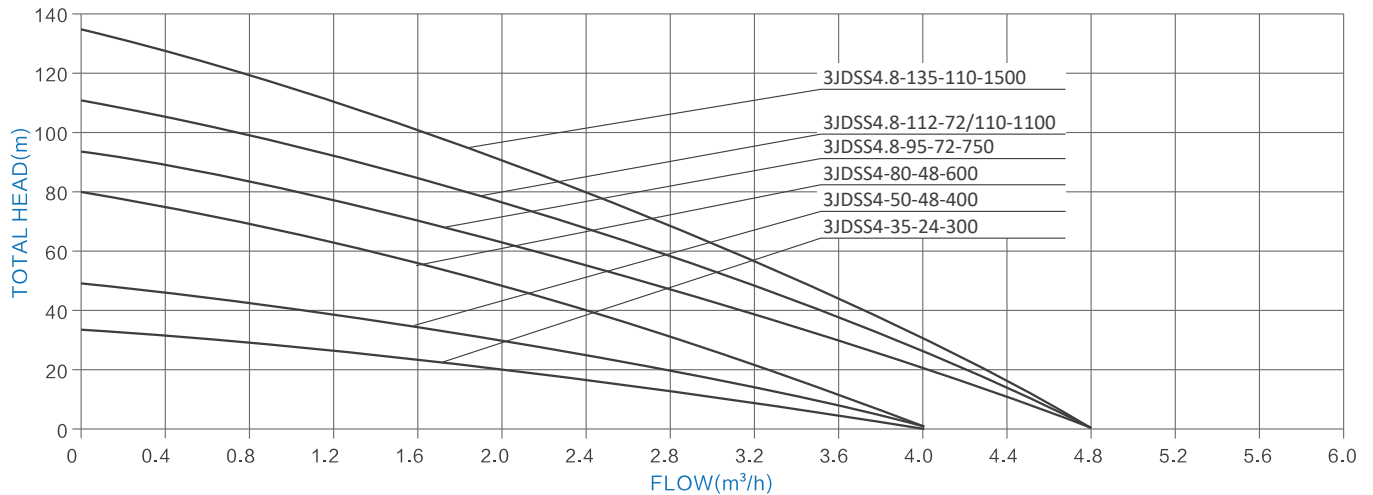
Item	Voltage	Power	Max.Flow (m³/h)	Rated Flow (m³/h)	Max. Head	Outlet	Cable	Solar Panel Configuration ★
3JDSS4-35-24-300	24V	300W	4	2.2	35m	1.25"	2m	04 14
3JDSS4-50-48-400	48V	400W	4	2.2	50m	1.25"	2m	04 15
3JDSS4-80-48-600	48V	600W	4	2.2	80m	1.25"	2m	05 17
3JDSS4.8-95-72-750	72V	750W	4.8	2.6	95m	1.25"	2m	08 18 30
3JDSS4.8-112-72/110-1100	72V/110V	1100W	4.8	2.6	112m	1.25"	2m	07 08 18 19
3JDSS4.8-135-110-1500	110V	1500W	4.8	2.6	135m	1.25"	2m	09 20
4JDSS4.8-203-110-1500	110V	1500W	4.8	2.6	203m	1.25"	2m	09 20
4JDSS5.2-45-48-500	48V	500W	5.2	2.9	45m	1.25"	2m	05 16
4JDSS5.2-67-48/72-750	48V/72V	750W	5.2	2.9	67m	1.25"	2m	05 08 17 18 30
4JDSS5.2-101-72/110-1100	72V/110V	1100W	5.2	2.9	101m	1.25"	2m	07 08 18 19
4JDSS5.2-146-110-1300	110V	1300W	5.2	2.9	146m	1.25"	2m	09 19 31
4JDSS7.5-80-110-1300	110V	1300W	7.5	4.1	80m	1.25"	2m	09 19 31
4JDSS7.5-100-110-1500	110V	1500W	7.5	4.1	100m	1.25"	2m	09 20
4JDSS11-60-110-1500	110V	1500W	11	6.1	60m	2"	2m	09 20
4JDSS19-35-110-1500	110V	1500W	19	10.5	35m	2"	2m	09 20
4JDSS25-26-110-1500	110V	1500W	25	13.8	26m	2"	2m	09 20
4/6JDSS30-19-72-1100	72V	1100W	30	16.5	19m	3"	2m	07 08 18 19
4/6JDSS30-31-110-1500	110V	1500W	30	16.5	31m	3"	2m	09 20
4/6JDSS36-22-110-1500	110V	1500W	36	19.8	22m	3"	2m	09 20

★ Note: For details refer to Recommended system configurations (page 26)

Model selection

JDSS Series - SOLAR PUMP WITH SS304 IMPELLER

Hydraulic Performance Curves



JDSS Series - AC/DC , WV Series SOLAR PUMP WITH SS304 IMPELLER

Borehole pump with stainless-steel pump head. Can be used in areas with silt in water well.

Technical Data

Item	(AC) Voltage	Recommended MPPT Voltage	Power	Max. Flow (m ³ /h)	Rated Flow (m ³ /h)	Max. Head	Outlet	Cable	Solar Panel Configuration
3JDSS4.8-95-110-750-A/D	85V-280V	110V-400V	750W	4.8	2.6	95	1.25"	2m	(21) (27) (31)
3JDSS4.8-95-110-750-WV	N.A.	110V-150V							
3JDSS4.8-110-150-1100-A/D	85V-280V	150V-400V	1100W	4.8	2.6	110	1.25"	2m	(22) (28) (31)
3JDSS4.8-110-150-1100-WV	N.A.	150V-190V							
3JDSS4.8-130-200-1500-A/D	85V-280V	200V-400V	1500W	4.8	2.6	130	1.25"	2m	(10) (23) (29) (32)
3JDSS4.8-130-200-1500-WV	N.A.	200V-240V							
4JDSS4.8-203-200-1500-A/D	85V-280V	200V-400V	1500W	4.8	2.6	203	1.25"	2m	(10) (23) (29) (32)
4JDSS4.8-203-200-1500-WV	N.A.	200V-240V							
4JDSS5.2-67-110-750-A/D	85V-280V	110V-400V	750W	5.2	2.9	67	1.25"	2m	(21) (27) (31)
4JDSS5.2-67-110-750-WV	N.A.	110V-150V							
4JDSS5.2-255-300-2200-A/D	85V-280V	300V-400V	2200W	5.2	2.9	255	1.25"	2m	(11) (24)
4JDSS5.2-255-300-2200-WV	N.A.	300V-340V							
4JDSS5.2-101-150-1100-A/D	85V-280V	150V-400V	1100W	5.2	2.9	101	1.25"	2m	(22) (28) (31)
4JDSS5.2-101-150-1100-WV	N.A.	150V-190V							
4JDSS5.2-146-200-1300-A/D	85V-280V	150V-400V	1300W	5.2	2.9	146	1.25"	2m	(22) (28) (31)
4JDSS5.2-146-200-1300-WV	N.A.	150V-190V							
4JDSS7.5-80-150-1300-A/D	85V-280V	150V-400V	1300W	7.5	4.1	80	1.25"	2m	(22) (28) (31)
4JDSS7.5-80-150-1300-WV	N.A.	150V-190V							
4JDSS7.5-100-200-1500-A/D	85V-280V	200V-400V	1500W	7.5	4.1	100	1.25"	2m	(10) (23) (29) (32)
4JDSS7.5-100-200-1500-WV	N.A.	200V-240V							
4JDSS7.5-150-300-2200-A/D	85V-280V	300V-400V	2200W	7.5	4.1	150	1.25"	2m	(11) (24)
4JDSS7.5-150-300-2200-WV	N.A.	300V-340V							
4JDSS11-60-200-1500-A/D	85V-280V	200V-400V	1500W	11	6.1	60	2"	2m	(10) (23) (29) (32)
4JDSS11-60-200-1500-WV	N.A.	200V-240V							
4JDSS11-120-300-2200-A/D	85V-280V	300V-400V	2200W	11	6.1	120	2"	2m	(11) (24)
4JDSS11-120-300-2200-WV	N.A.	300V-340V							
4JDSS19-35-200-1500-A/D	85V-280V	200V-400V	1500W	19	10.5	35	2"	2m	(10) (23) (29) (32)
4JDSS19-35-200-1500-WV	N.A.	200V-240V							
4JDSS19-60-300-2200-A/D	85V-280V	300V-400V	2200W	19	10.5	60	2"	2m	(11) (24)
4JDSS19-60-300-2200-WV	N.A.	300V-340V							
4JDSS25-26-200-1500-A/D	85V-280V	200V-400V	1500W	25	13.8	26	2"	2m	(10) (23) (29) (32)
4JDSS25-26-200-1500-WV	N.A.	200V-240V							
4JDSS30-36-300-2200-A/D	85V-280V	300V-400V	2200W	30	16.5	36	2"	2m	(11) (24)
4JDSS30-36-300-2200-WV	N.A.	300V-340V							

* Note: For details refer to Recommended system configurations (page 26)

Model selection

JDSS Series - AC/DC , WV Series SOLAR PUMP WITH SS304 IMPELLER

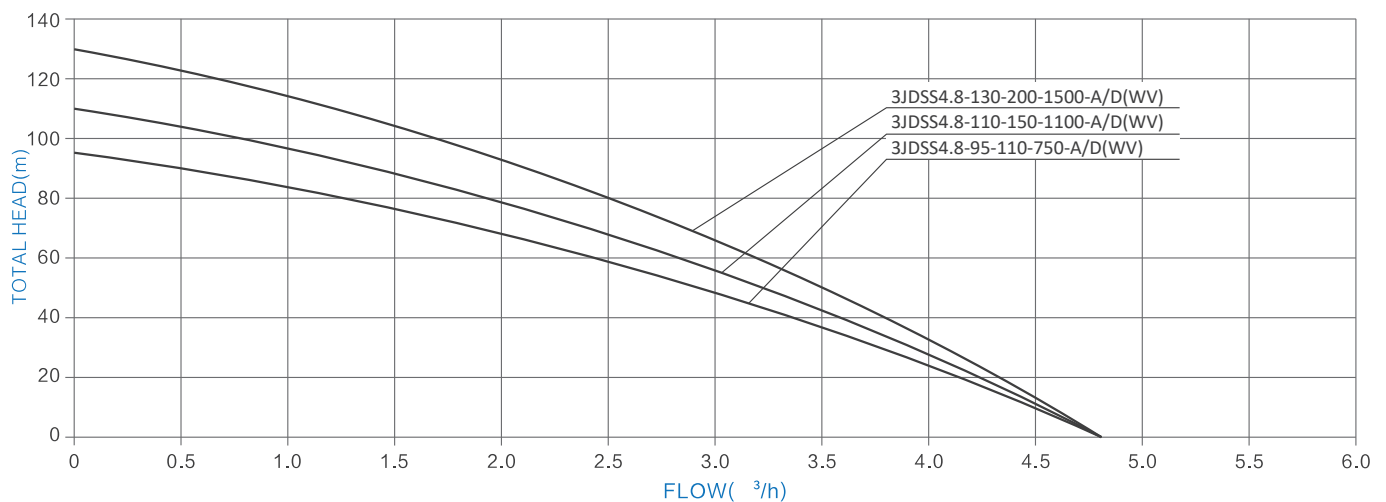
Borehole pump with stainless-steel pump head. Can be used in areas with silt in water well.

Technical Data

Item	(AC) Voltage	Recommended MPPT Voltage	Power	Max. Flow (m ³ /h)	Rated Flow (m ³ /h)	Max. Head	Outlet	Cable	Solar Panel Configuration ★
4/6JDSS30-19-150-1100-A/D	85V-280V	150V-400V	1100W	30	16.5	19	3"	2m	Ⓣ② Ⓣ⑧ Ⓣ③①
4/6JDSS30-19-150-1100-WV	N.A.	150V-190V							
4/6JDSS36-22-200-1500-A/D	85V-280V	200V-400V	1500W	36	20.0	22	3"	2m	Ⓣ⑩ Ⓣ②③ Ⓣ②⑨ Ⓣ③②
4/6JDSS36-22-200-1500-WV	N.A.	200V-240V							
4/6JDSS36-38-300-2200-A/D	85V-280V	300V-400V	2200W	36	20.0	39	3"	2m	Ⓣ①① Ⓣ②④
4/6JDSS36-38-300-2200-WV	N.A.	300V-340V							

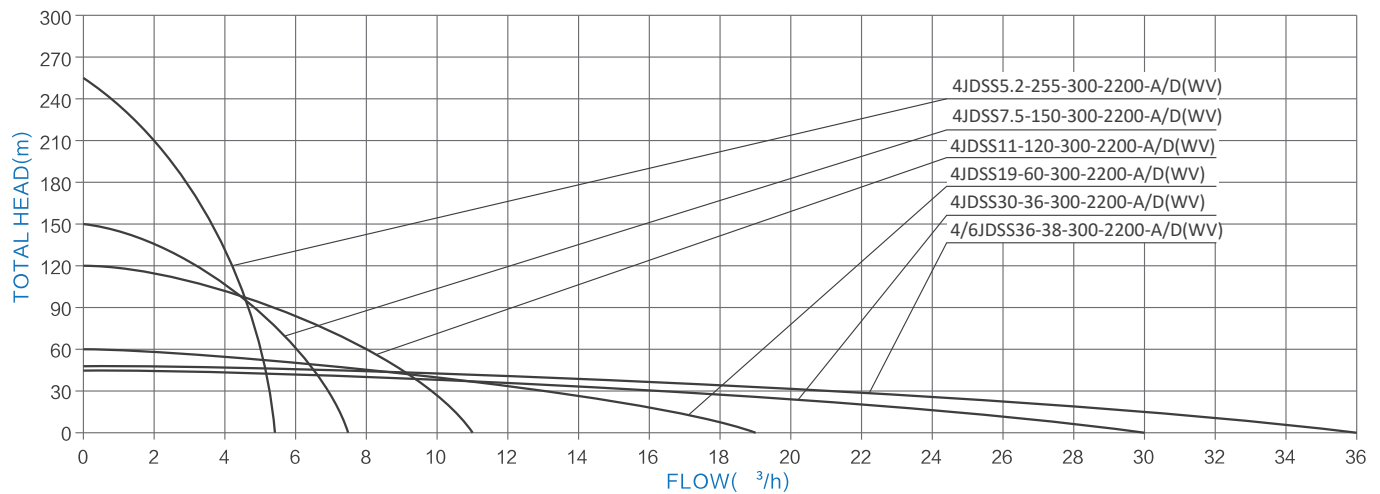
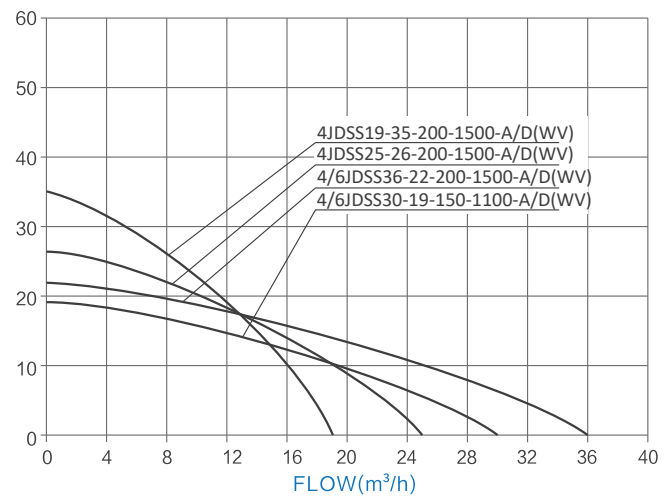
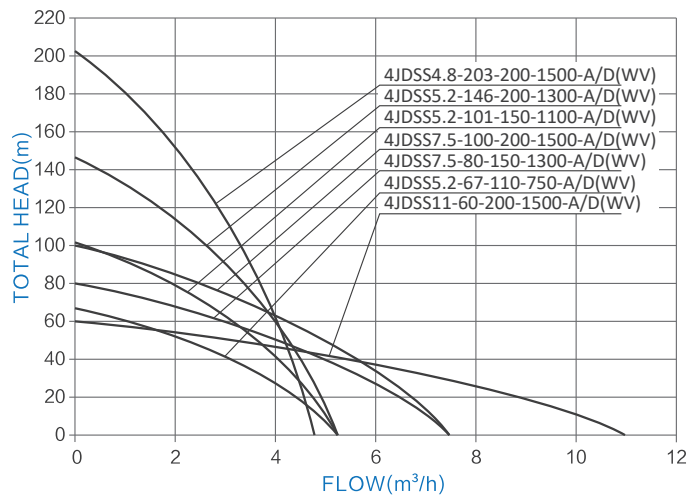
* Note: For details refer to *Recommended system configurations (page 26)*

Hydraulic Performance Curves



JDSS Series - AC/DC , WV Series SOLAR PUMP WITH SS304 IMPELLER

Hydraulic Performance Curves



JDSS Series - AC/DC Series SOLAR PUMP WITH SS304 IMPELLER

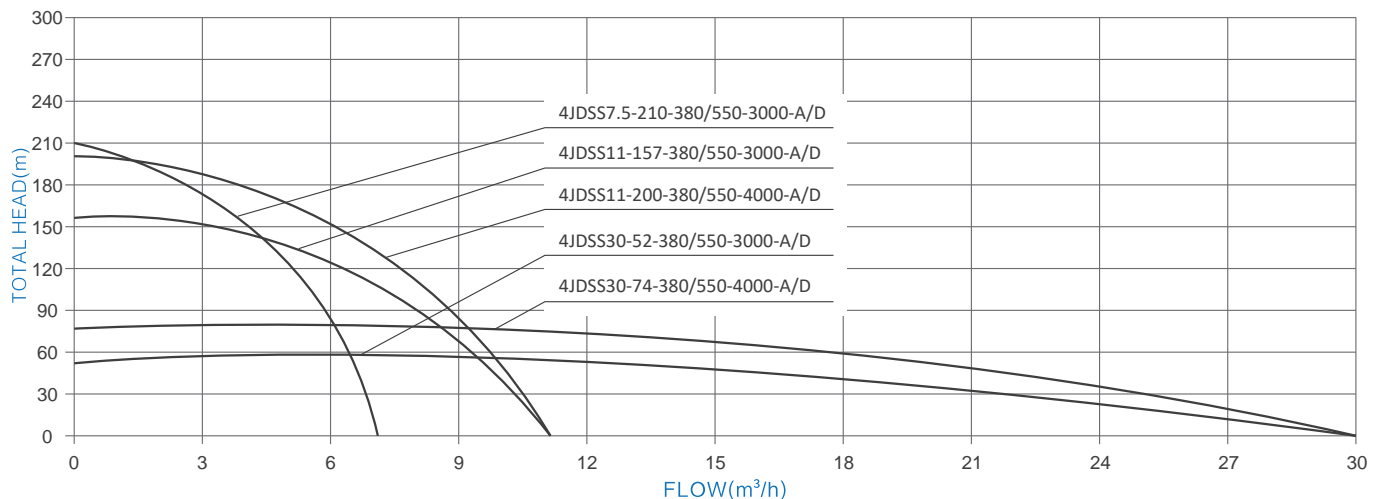
Borehole pump with stainless-steel pump head. Can be used in areas with silt in water well.

Technical Data

Item	(AC) Voltage	Recommended MPPT Voltage	Power	Max. Flow (m ³ /h)	Rated Flow (m ³ /h)	Max. Head	Outlet	Cable	Solar Panel Configuration ★
4JDSS5.2-300-380/550-3000-A/D	380V	520V-650V	3000W	5.2	2.9	300	1.25"	2m	(12) (25)
4JDSS7.5-210-380/550-3000-A/D	380V	520V-650V	3000W	7.5	4.1	210	1.25"	2m	(12) (25)
4JDSS8-272-380/550-4000-A/D	380V	520V-650V	4000W	8	4.4	272	1.25"	2m	(13) (26)
4JDSS11-157-380/550-3000-A/D	380V	520V-650V	3000W	11	6.1	157	2"	2m	(12) (25)
4JDSS11-200-380/550-4000-A/D	380V	520V-650V	4000W	11	6.1	200	2"	2m	(13) (26)
4JDSS19-98-380/550-3000-A/D	380V	520V-650V	3000W	19	10.5	98	2"	2m	(12) (25)
4JDSS19-135-380/550-4000-A/D	380V	520V-650V	4000W	19	10.5	135	2"	2m	(13) (26)
4JDSS30-52-380/550-3000-A/D	380V	520V-650V	3000W	30	16.5	52	2"	2m	(12) (25)
4JDSS30-74-380/550-4000-A/D	380V	520V-650V	4000W	30	16.5	74	2"	2m	(13) (26)
4/6JDSS36-56-380/550-3000-A/D	380V	520V-650V	3000W	36	19.8	56	3"	2m	(12) (25)
4/6JDSS36-75-380/550-4000-A/D	380V	520V-650V	4000W	36	19.8	75	3"	2m	(13) (26)

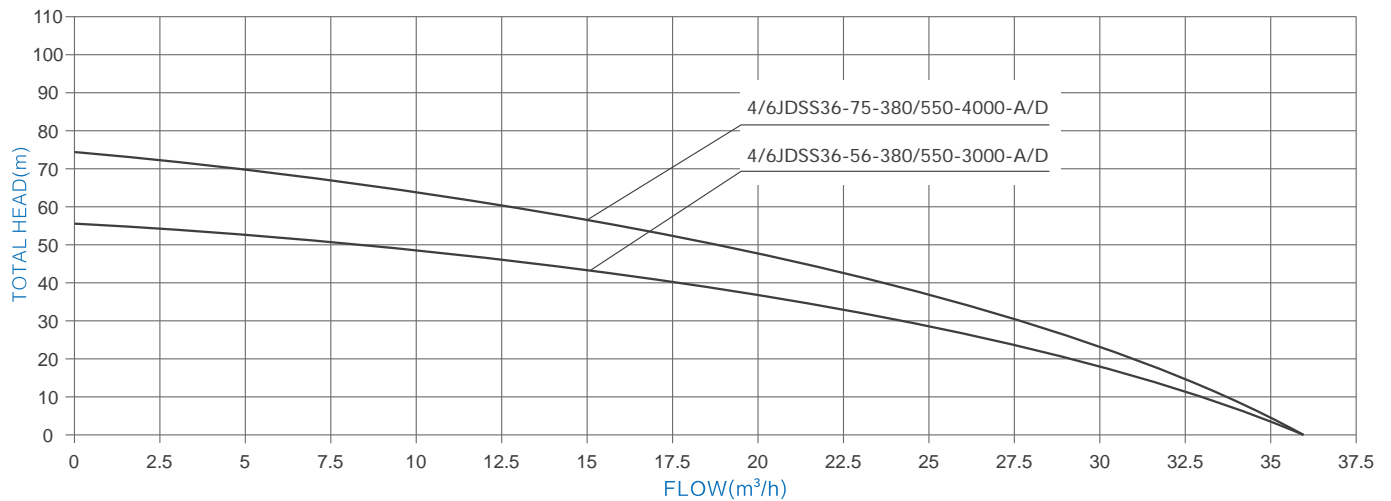
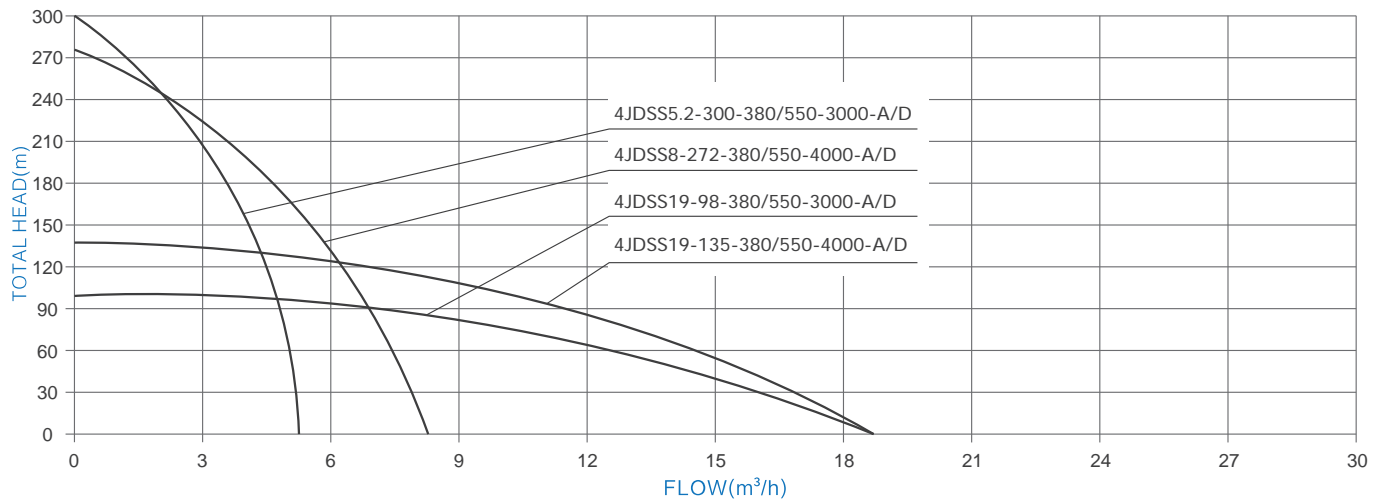
* Note: For details refer to [Recommended system configurations \(page 26\)](#)

Hydraulic Performance Curves



JDSS Series - AC/DC Series SOLAR PUMP WITH SS304 IMPELLER

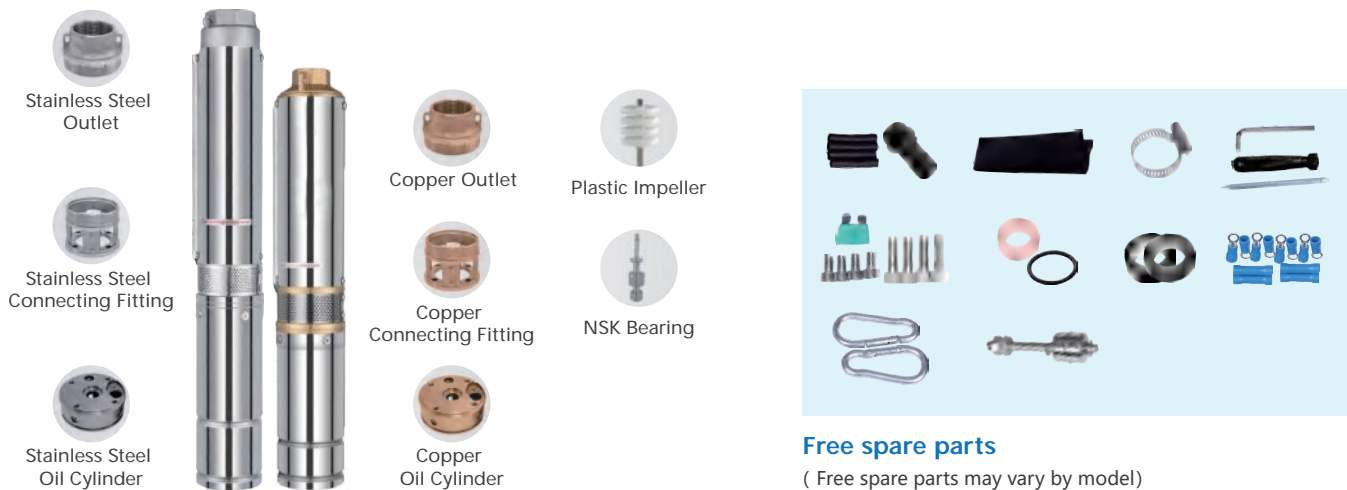
Hydraulic Performance Curves



Model selection

JDPh Series - SOLAR PUMP WITH PLASTIC IMPELLER

A borehole pump with plastic impeller series. Comes with stainless pump head standard. Best applied in locations with clean water. Perfect for irrigation.



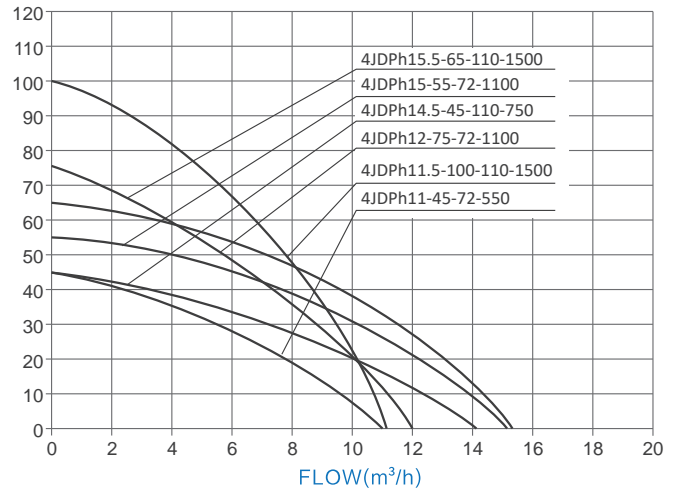
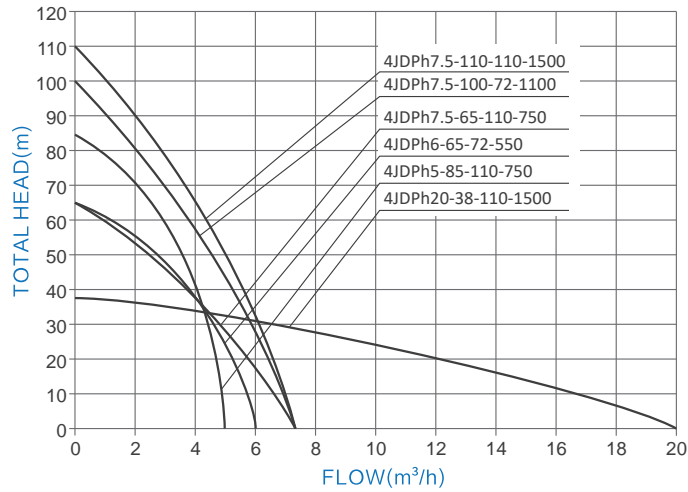
Technical Data

Item	Voltage	Power	Max.Flow (m ³ /h)	Rated Flow (m ³ /h)	Max. Head	Outlet	Cable	Solar Panel Configuration *
4JDPh5-85-110-750	110V	750W	5	2.8	85m	1.25"	2m	08 18 30
4JDPh6-65-72-550	72V	550W	6	3.3	65m	1.25"	2m	05 16
4JDPh7.5-65-110-750	110V	750W	7.5	4.1	65m	2"	2m	08 18 30
4JDPh7.5-100-72-1100	72V	1100W	7.5	4.1	100m	2"	2m	07 08 18 19
4JDPh7.5-110-110-1500	110V	1500W	7.5	4.1	110m	2"	2m	09 20
4JDPh11-45-72-550	72V	550W	11	6.1	45m	2"	2m	05 16
4JDPh11.5-100-110-1500	110V	1500W	11.5	6.3	100m	2"	2m	09 20
4JDPh12-75-72-1100	72V	1100W	12	6.6	75m	2"	2m	07 08 18 19
4JDPh14.5-45-110-750	110V	750W	14.5	8	45m	2"	2m	08 18 30
4JDPh15-55-72-1100	72V	1100W	15	8.3	55m	2"	2m	07 08 18 19
4JDPh15.5-65-110-1500	110V	1500W	15.5	8.5	65m	2"	2m	09 20
4JDPh20-38-110-1500	110V	1500W	20	11	38m	2"	2m	09 20

* Note: For details refer to [Recommended system configurations \(page 26\)](#)

JDPH Series - SOLAR PUMP WITH PLASTIC IMPELLER

Hydraulic Performance Curves



JDPH Series - AC/DC , WV Series SOLAR PUMP WITH PLASTIC IMPELLER

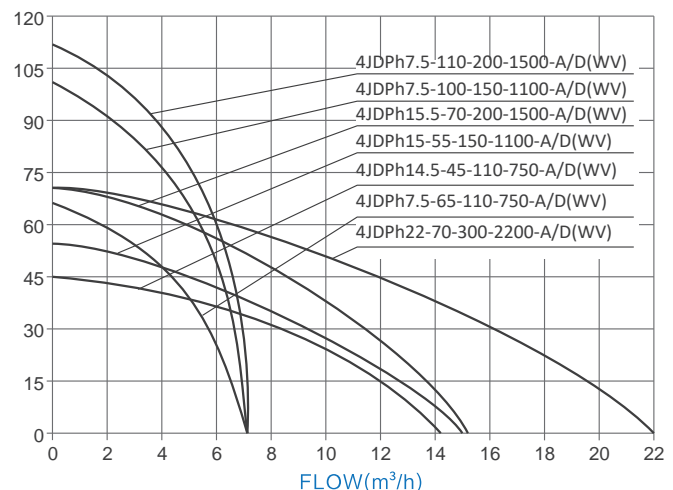
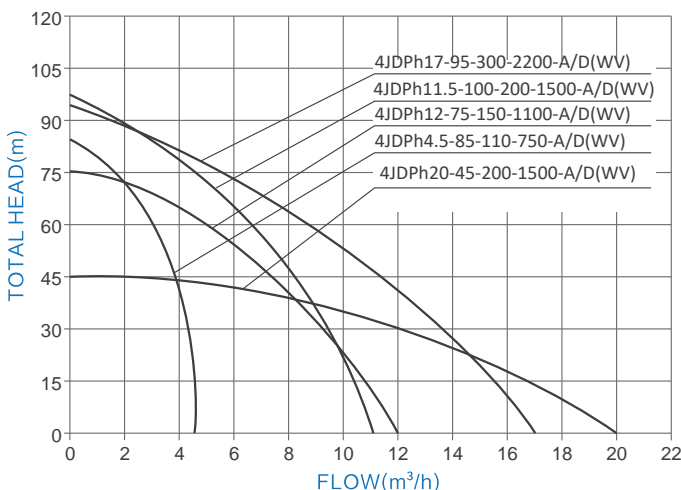
A borehole pump with plastic impeller series. Comes with stainless pump head standard. Best applied in locations with clean water. Perfect for irrigation.

Technical Data

Item	(AC) Voltage	Recommended MPPT Voltage	Power	Max. Flow (m ³ /h)	Rated Flow (m ³ /h)	Max. Head	Outlet	Cable	Solar Panel Configuration ★
4JDPH4.5-85-110-750-A/D	85V-280V	110V-400V	750W	4.5	2.5	85m	1.25"	2m	Ⓐ Ⓒ Ⓓ
4JDPH4.5-85-110-750-WV	N.A.	110V-150V							
4JDPH7.5-65-110-750-A/D	85V-280V	150V-400V	900W	7.5	4.1	65m	2"	2m	Ⓑ Ⓒ Ⓓ
4JDPH7.5-65-110-750-WV	N.A.	150V-190V							
4JDPH7.5-100-150-1100-A/D	85V-280V	150V-400V	1100W	7.5	4.1	100m	2"	2m	Ⓑ Ⓒ Ⓓ
4JDPH7.5-100-150-1100-WV	N.A.	150V-190V							
4JDPH7.5-110-200-1500-A/D	85V-280V	200V-400V	1500W	7.5	4.1	110m	2"	2m	Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
4JDPH7.5-110-200-1500-WV	N.A.	200V-240V							
4JDPH12-75-150-1100-A/D	85V-280V	150V-400V	1100W	12	6.6	75m	2"	2m	Ⓑ Ⓒ Ⓓ
4JDPH12-75-150-1100-WV	N.A.	150V-190V							
4JDPH11.5-100-200-1500-A/D	85V-280V	200V-400V	1500W	11.5	6.3	100m	2"	2m	Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
4JDPH11.5-100-200-1500-WV	N.A.	200V-240V							
4JDPH14.5-45-110-750-A/D	85V-280V	110V-400V	750W	14.5	8	45m	2"	2m	Ⓐ Ⓒ Ⓓ
4JDPH14.5-45-110-750-WV	N.A.	110V-150V							
4JDPH15-55-150-1100-A/D	85V-280V	150V-400V	1100W	15	8.3	55m	2"	2m	Ⓑ Ⓒ Ⓓ
4JDPH15-55-150-1100-WV	N.A.	150V-190V							
4JDPH15.5-70-200-1500-A/D	85V-280V	200V-400V	1500W	15.5	8.5	70m	2"	2m	Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
4JDPH15.5-70-200-1500-WV	N.A.	200V-240V							
4JDPH17-95-300-2200-A/D	85V-280V	300V-400V	2200W	17	9.4	95m	2"	2m	Ⓐ Ⓒ
4JDPH17-95-300-2200-WV	N.A.	300V-340V							
4JDPH20-45-200-1500-A/D	85V-280V	200V-400V	1500W	20	11	45m	2"	2m	Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ
4JDPH20-45-200-1500-WV	N.A.	200V-240V							
4JDPH22-70-300-2200-A/D	85V-280V	300V-400V	2200W	22	12	70m	2"	2m	Ⓐ Ⓒ
4JDPH22-70-300-2200-WV	N.A.	300V-340V							

★ Note: For details refer to [Recommended system configurations \(page 26\)](#)

Hydraulic Performance Curves



JDY Series - SWIMMING POOL SOLAR PUMP

Swimming pool pump with large flow rate and low lift.



Free spare parts

Technical Data

Item	Voltage	Power	Max.Flow (m³/h)	Rated Flow (m³/h)	Max. Head	Outlet	Cable	Solar Panel Configuration *
JDY15-14-48-500	48V	500W	15	0.8	14m	2x2"	2m	05 16
JDY20-19-72-900	48V	900W	20	11	19m	2x2"	2m	07 08 18 19
JDY27-19-72/110-1200	72V/110V	1200W	27	14.9	19m	3x3"	2m	09 19 31

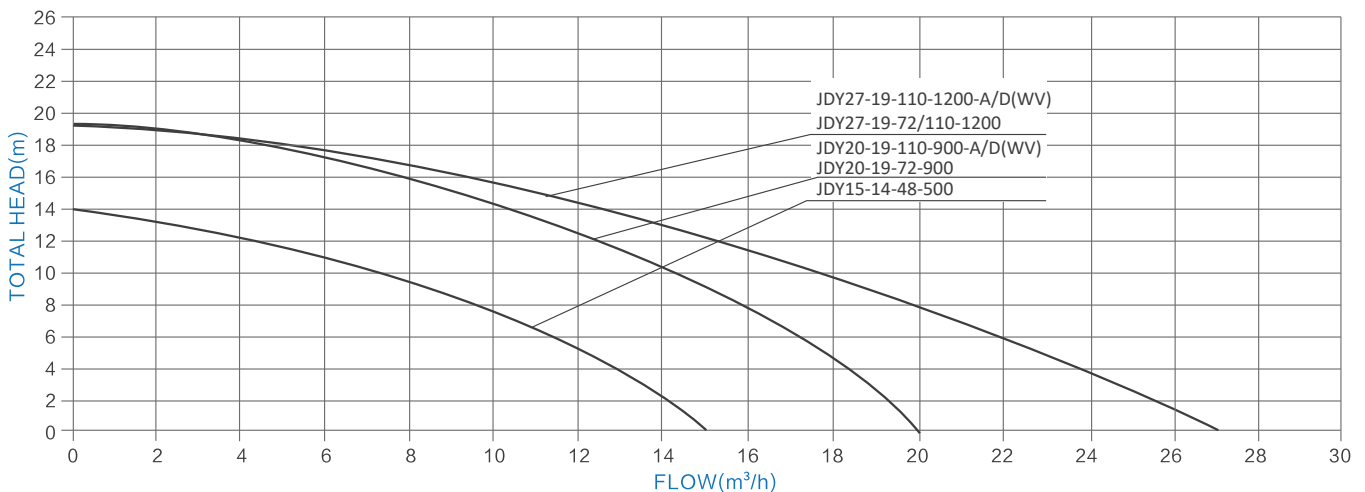
* Note: For details refer to *Recommended system configurations (page 26)*

SWIMMING POOL SOLAR PUMP AC/DC , WV Series

Item	(AC) Voltage	Recommended MPPT Voltage	Power	Max. Flow (m³/h)	Rated Flow (m³/h)	Max. Head	Outlet	Cable	Solar Panel Configuration *
JDY20-19-110-900-A/D	85V-280V	150V-400V	900W	20	11.0	19	2x2"	2m	22 28 31
JDY20-19-110-900-WV	N.A.	150V-190V							
JDY27-19-110-1200-A/D	85V-280V	150V-400V	1200W	27	14.9	19	3x3"	2m	22 28 31
JDY27-19-110-1200-WV	N.A.	150V-190V							

* Note: For details refer to *Recommended system configurations (page 26)*

Hydraulic Performance Curves



Model selection

JDL , JDH Series - SOLAR SURFACE PUMP

JDL Series: Surface pump with low flow rate and high lift.

JDH Series: Surface pump with large flow rate and low lift. 8 meters maximum absorption, integrated controller/pump structure.



JDL Series



JDH Series



Free spare parts

(Free spare parts may vary by model)

Technical Data

Item	Voltage	Power	Max.Flow (m ³ /h)	Rated Flow (m ³ /h)	Max. Head	Outlet	Cable	Solar Panel Configuration *
JDL2-25-24-210	24V	210W	2	1.1	25m	1x1"	2m	02 03 14
JDL2-30-24-280	24V	280W	2	1.1	30m	1x1"	2m	04 14
JDL3-50-48-550	48V	550W	3	1.7	50m	1x1"	2m	05 16
JDL3-65-72-750	72V	750W	3	1.7	65m	1x1"	2m	08 18 30
JDH6-24-48-550	48V	550W	6	3.3	24m	1"	0.6m	05 16
JDH15-14-48-550	48V	550W	15	8.3	14m	1.5"	0.6m	05 16
JDH21-14-72-750	72V	750W	21	11.6	14m	2"	0.6m	08 18 30
JDH26-15-72-1100	72V	1100W	26	14.3	15m	2"	0.6m	07 08 18 19
JDH50-17-110-1500	110V	1500W	50	27.5	17m	3"	0.6m	09 20

* Note: For details refer to *Recommended system configurations (page 26)*

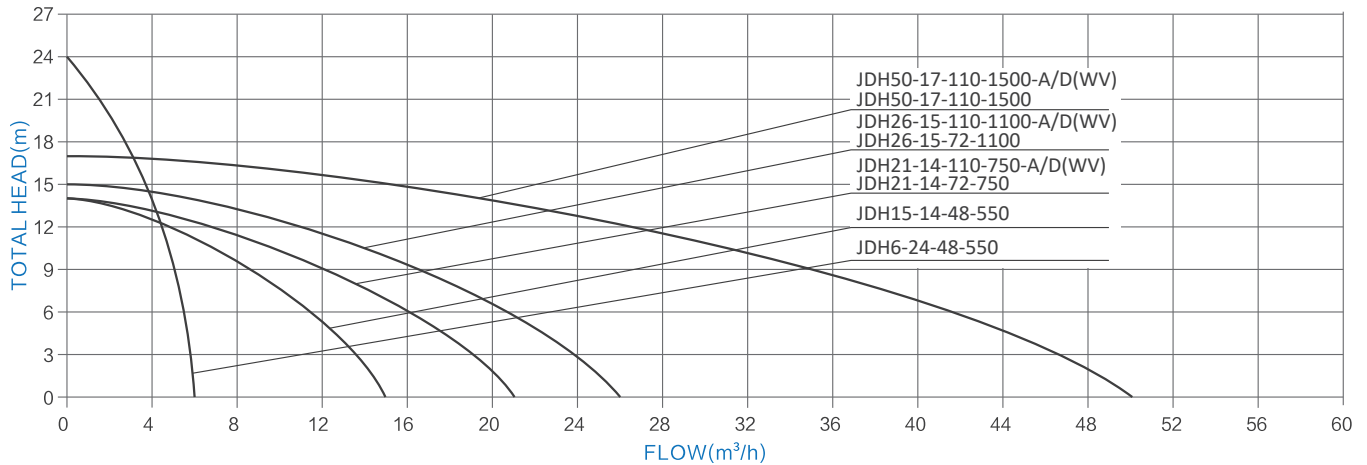
SOLAR SURFACE PUMP AC/DC , WV Series

Item	(AC) Voltage	Recommended MPPT Voltage	Power	Max. Flow (m ³ /h)	Rated Flow (m ³ /h)	Max. Head	Outlet	Cable	Solar Panel Configuration *
JDL3-65-110-750-A/D	85V-280V	110V-400V	750W	3	1.7	65m	1x1"	2m	21 27 31
JDH21-14-110-750-A/D	85V-280V	110V-400V	750W	21	11.6	14m	2"	0.6m	22 28 31
JDH21-14-110-750-WV	N.A.	110V-150V							
JDH26-15-110-1100-A/D	85V-280V	150V-400V	1100W	26	14.3	15m	2"	0.6m	22 28 31
JDH26-15-110-1100-WV	N.A.	150V-190V							
JDH50-17-110-1500-A/D	85V-280V	200V-400V	1500W	50	27.5	17m	2"	0.6m	10 23 29 32
JDH50-17-110-1500-WV	N.A.	200V-240V							

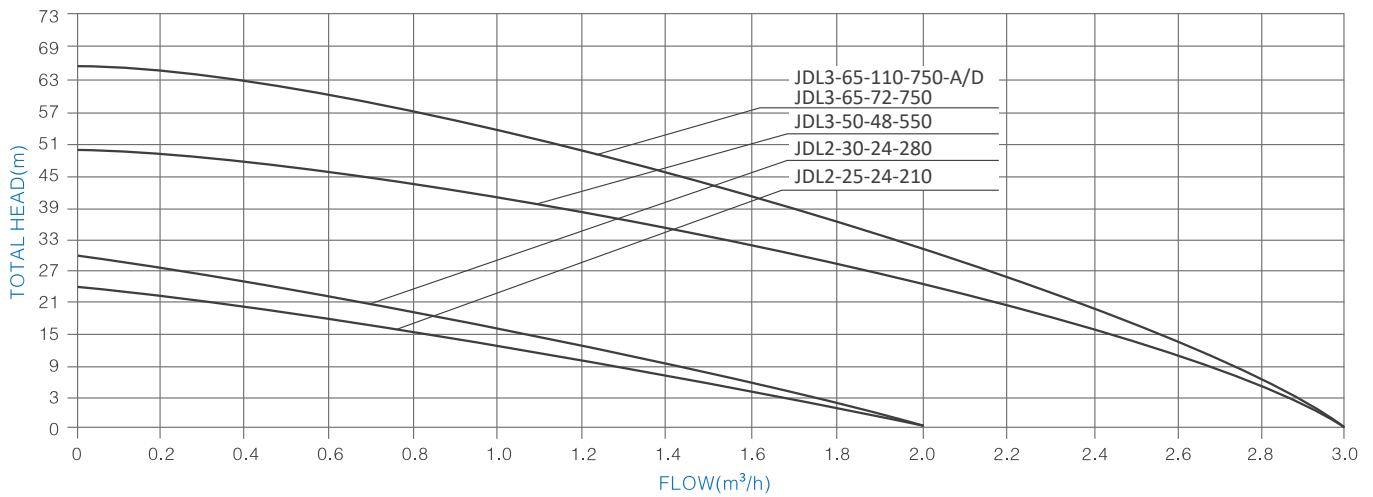
* Note: For details refer to *Recommended system configurations (page 26)*

JDL Series / JDH Series - SOLAR SURFACE PUMP

Hydraulic Performance Curves



Hydraulic Performance Curves



Recommended System Configurations

Solar Panel Configuration Example: ⑱ 330W:3S1P		Solar Panel Configuration Example: ⑲ 330W:3S2P	
NO.	Solar Panel Configuration	NO.	Solar Panel Configuration
①	150W: 1S1P	⑰	330W: 2S2P
②	150W: 2S1P	⑱	330W: 3S1P
③	270W: 1S1P	⑲	330W: 3S2P
④	270W: 1S2P	⑳	330W: 4S2P
⑤	270W: 2S2P	㉑	330W: 6S1P
⑥	270W: 3S1P	㉒	330W: 7S1P
⑦	270W: 3S2P	㉓	330W: 8S1P
⑧	270W: 4S1P	㉔	330W: 9S1P
⑨	270W: 4S2P	㉕	330W: 12S1P
⑩	270W: 9S1P	㉖	330W: 15S1P
⑪	270W: 10S1P	㉗	450W: 3S1P
⑫	270W: 15S1P	㉘	450W: 4S1P
⑬	270W: 19S1P	㉙	450W: 5S1P
⑭	330W: 1S1P	⑳	550W: 2S1P
⑮	330W: 1S2P	㉑	550W: 3S1P
⑯	330W: 2S1P	㉒	550W: 4S1P

Please contact Jntech for other solar panel configurations