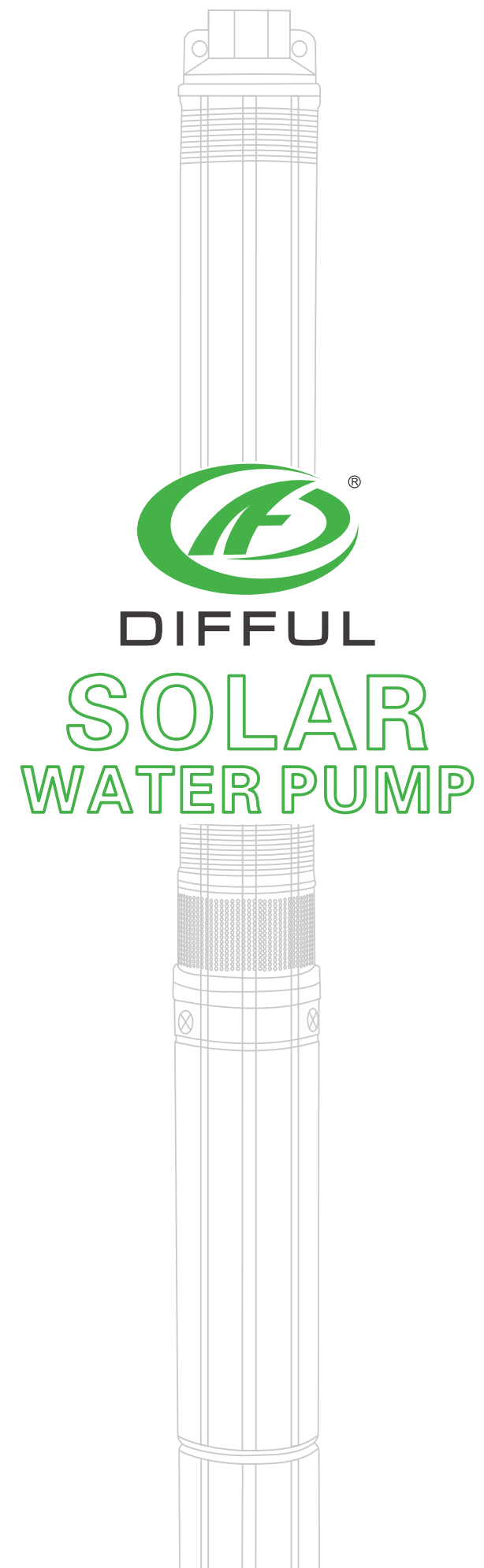
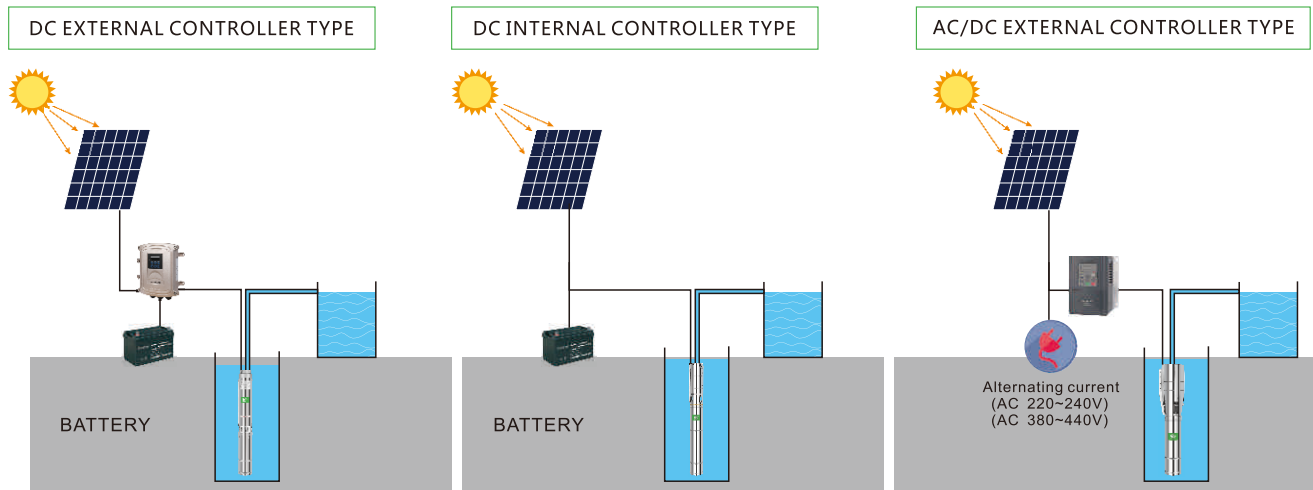


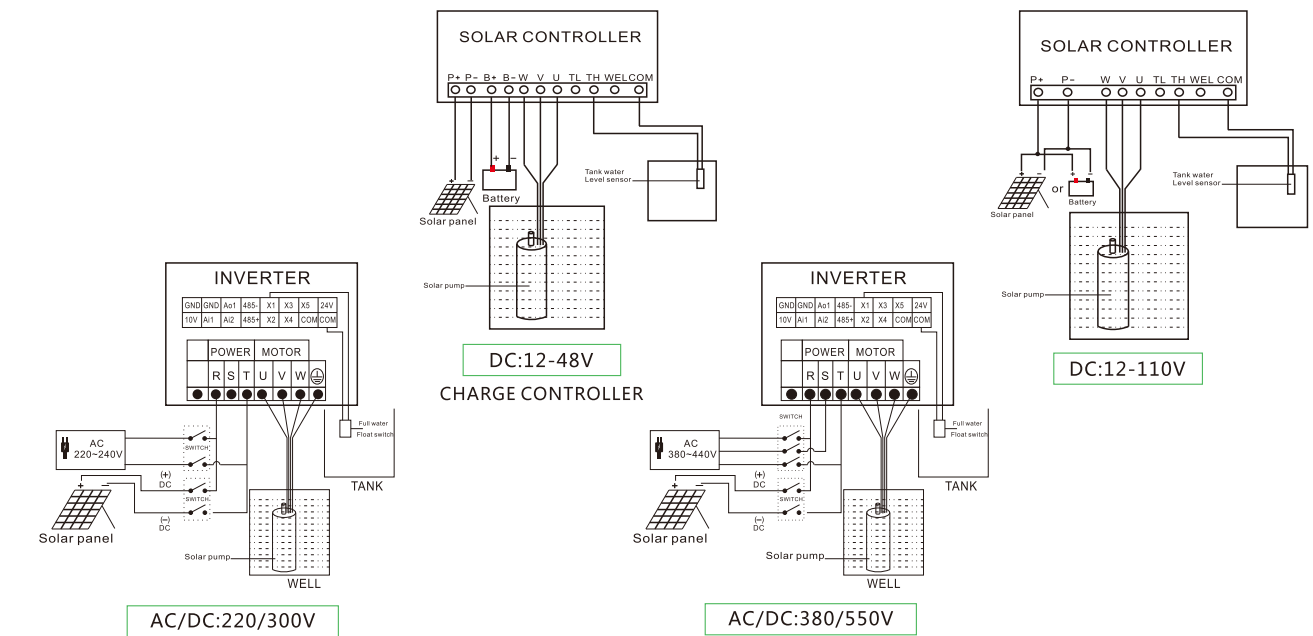
ZHEJIANG DINGFENG ELECTRICAL APPLIANCE CO., LTD.

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SYSTEM INSTALLATION DRAWING



WORKING ENVIRONMENT AND ELECTRICAL PROPERTY

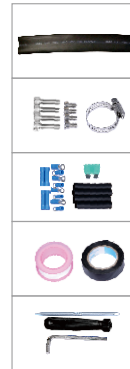
Controller and Pump Matching Method					
Controller Model	Adaptable Pump	Max.Input Current (A)	Max.Open Circuit Voltage (V)	MPPT Voltage Range (V)	Working Temperature (°C)
DF-12	Rated 12V Pump	15	<48	30-48	-15-60
DF-24	Rated 24V Pump	15	<48	30-48	-15-60
DF-36	Rated 36V Pump	15	<48	30-58	-15-60
DF-48	Rated 48V Pump	15	<100	60-90	-15-60
DF-72	Rated 72V Pump	15	<150	90-120	-15-60
DF-110	Rated 110V Pump	15	<200	110-150	-15-60
DF-220	Rated 220V Pump	15	<450	300-400	-15-60
DF-380	Rated 380V Pump	15	<800	480-750	-15-60

ADVANTAGE OF DC SOLAR PUMP

- Permanent magnet DC brushless synchronous motor: The efficiency is improved by 15%-20%;
Save energy; Reduce the consumption of solar panels.
- 304 S/S pump shaft.
- Brass or stainless steel outlet/connector/ oil cylinder.
- Japanese NSK bearing: prolong the working life.
- Double bearing motor base: can work under more axial pressure
- Alloy mechanical seal: Longer working life and high reliability.
- Motor coil is made by automatic winding machine with centralized winding technology, motor efficiency is much improved.
- Intelligent water shortage protection: The pump stops working automatically when there is no water in the well, and automatically start working 30 minutes later.
- Controller:
 - (1)Waterproof grade: IP65
 - (2)Ambient temperature: -15℃~60℃
 - (3)MPPT function, the solar power utilization rate is higher.
 - (4)Automatic charging function: Guarantee the pump normally working, meanwhile charge the battery;
And when there is no sunshine, the battery can make the pump continuously working.
 - (5)LED displays the power, voltage, current, speed etc working condition.
 - (6)Frequency conversion function: It can automatically run with frequency conversion according to the solar power, and user also can change the speed of pump manually.
 - (7)Automatically start and stop working.
 - (8)Water proof and leak-proof: Double seal effect.
 - (9)Soft start: No impulse current, protect the pump motor.
 - (10)High voltage/Low voltage/Over-current/High temperature protection
- 10.2 years warranty.

DLP/DLP-A/D

DC BRUSHLESS SWIMMING POOL SOLAR PUMP



Free spare parts

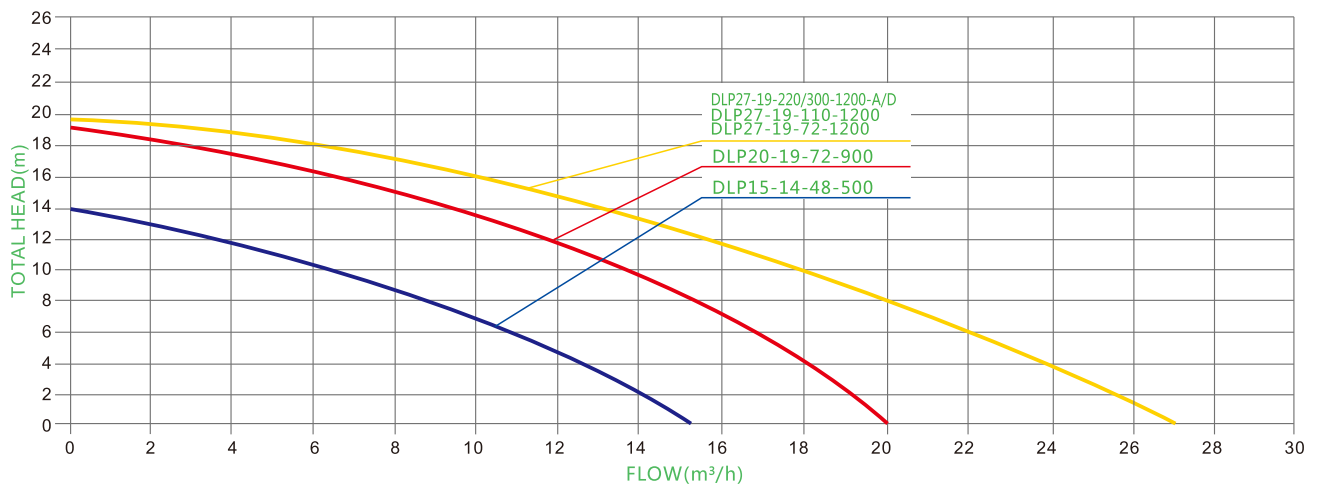


DC controller



AC/DC controller

PERFORMANCE CURVES



TECHNICAL DATA

ITEM	Voltage	Best input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DLP15-14-48-500	48V	60V-90V	500W	15m³/h	14m	2X2"	2m	<100V	≥1.3*PUMP POWER
DLP20-19-72-900	72V	90V-120V	900W	20m³/h	19m	2X2"	2m	<150V	≥1.3*PUMP POWER
DLP27-19-72-1200	72V	90V-120V	1200W	27m³/h	19m	3X3"	2m	<150V	≥1.3*PUMP POWER
DLP27-19-110-1200	110V	110V-150V	1200W	27m³/h	19m	3X3"	2m	<200V	≥1.3*PUMP POWER
DLP27-19-220/300-1200-A/D	AC220V DC300V	300V-400V	1200W	27m³/h	19m	3X3"	2m	<450V	≥1.3*PUMP POWER

Solar panel recommendation for 12V-110V DC solar pump

PUMP POWER 80W-12V Voc: 18V~50V (1) Solar panel:150W*1PCS (2) Solar panel:250W*1PCS (3) Solar panel:300W*1PCS	(19) Solar panel:250W*4PCS (20) Solar panel:300W*4PCS
PUMP POWER 120W-24V 180W-24V 200W-24V 210W-24V 210W-36V Voc: 18V~50V (4) Solar panel:150W*2PCS (5) Solar panel:250W*1PCS (6) Solar panel:300W*1PCS	(21) Solar panel:250W*4PCS (22) Solar panel:300W*3PCS
PUMP POWER 280W-24V 300W-24V Voc: 18V~50V (7) Solar panel:250W*2PCS (8) Solar panel:300W*1PCS	(23) Solar panel:250W*4PCS (24) Solar panel:300W*4PCS
PUMP POWER 400W-36V Voc: 18V~50V (9) Solar panel:250W*2PCS (10) Solar panel:300W*2PCS	(25) Solar panel:250W*6PCS (26) Solar panel:300W*6PCS
PUMP POWER 370W-48V 400W-48V Voc: 30V~100V (11) Solar panel:250W*2PCS (12) Solar panel:300W*2PCS	(27) Solar panel:250W*6PCS (28) Solar panel:300W*6PCS
PUMP POWER 500W-48V 550W-48V Voc: 30V~100V (13) Solar panel:250W*4PCS (14) Solar panel:300W*2PCS	(29) Solar panel:250W*8PCS (30) Solar panel:300W*6PCS
PUMP POWER 600W-48V Voc: 30V~100V (15) Solar panel:250W*4PCS (16) Solar panel:300W*4PCS	(31) Solar panel:250W*8PCS (32) Solar panel:300W*8PCS
PUMP POWER 600W-72V Voc: 50V~150V (17) Solar panel:250W*3PCS (18) Solar panel:300W*3PCS	

Solar panel recommendation for 220V-380V DC solar pump

PUMP POWER 2200W-220V Best DC Vol. 300V~400V Solar panel:250W*11PCS Solar panel:300W*9PCS	(1) Solar panel:250W*11PCS (2) Solar panel:300W*9PCS
PUMP POWER 2200W-380V Best DC Vol. 480V~750V Solar panel:250W*15PCS Solar panel:300W*13PCS	(3) Solar panel:250W*15PCS (4) Solar panel:300W*13PCS
PUMP POWER 3000W-380V Best DC Vol. 480V~750V Solar panel:250W*16PCS Solar panel:300W*14PCS	(5) Solar panel:250W*16PCS (6) Solar panel:300W*14PCS
PUMP POWER 4000W-380V Best DC Vol. 480V~750V Solar panel:250W*19PCS Solar panel:300W*17PCS	(7) Solar panel:250W*19PCS (8) Solar panel:300W*17PCS
PUMP POWER 5500W-380V Best DC Vol. 480V~750V Solar panel:250W*32PCS Solar panel:300W*28PCS	(9) Solar panel:250W*32PCS (10) Solar panel:300W*28PCS
PUMP POWER 7500W-380V Best DC Vol. 480V~750V Solar panel:250W*38PCS Solar panel:300W*34PCS	(11) Solar panel:250W*38PCS (12) Solar panel:300W*34PCS
PUMP POWER 9200W-380V Best DC Vol. 480V~750V Solar panel:250W*38PCS Solar panel:300W*34PCS	(13) Solar panel:250W*38PCS (14) Solar panel:300W*34PCS
PUMP POWER 11000W-380V Best DC Vol. 480V~750V Solar panel:250W*54PCS Solar panel:300W*48PCS	(15) Solar panel:250W*54PCS (16) Solar panel:300W*48PCS
PUMP POWER 15000W-380V Best DC Vol. 480V~750V Solar panel:250W*80PCS Solar panel:300W*68PCS	(17) Solar panel:250W*80PCS (18) Solar panel:300W*68PCS

Solar panel recommendation for 220V-380V DC solar pump

PUMP POWER 750W-220V Best DC Vol. 300V~400V Solar panel:250W*7PCS Solar panel:300W*6PCS	(1) Solar panel:250W*7PCS (2) Solar panel:300W*6PCS
PUMP POWER 1100W-220V 1200W-220V Best DC Vol. 300V~400V Solar panel:250W*8PCS Solar panel:300W*7PCS	(3) Solar panel:250W*8PCS (4) Solar panel:300W*7PCS
PUMP POWER 1300W-220V 1500W-220V Best DC Vol. 300V~400V Solar panel:250W*10PCS Solar panel:300W*8PCS	(5) Solar panel:250W*10PCS (6) Solar panel:300W*8PCS