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ELECTRICAL APPLIANCE
CO., LTD.**

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SOLAR PUMP

PROFESSIONAL SOLAR PUMP MANUFACTURER



ZHEJIANG DINGFENG ELECTRICAL APPLIANCE CO., LTD.

ABOUT US

Zhejiang Dingfeng Electrical Appliance Co.,Ltd is a professional manufactory for DC solar pumps,AC/DC hybrid solar pumps, wide voltage solar pumps and water-filled motor solar pumps. Our head office is located in Wenling, Zhejiang, which is established in 1989. And we found our branch plant with 8900m² specially for solar pumps in Ningbo,Zhejiang. We have high-precision and fully automatic processing machines, advanced assembling lines and testing machines to improve the quality and efficiency. And we set up our own electronic circuit board workshop to make sure every production process is under control. During the last year, we have exported nearly 190000 pcs of solar pumps all over the world, and got countless buyer praise. We never stop the steps to improve and innovate our solar pumps to reach the different market requirements.

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CONTROLLER



TECHNICAL DATA

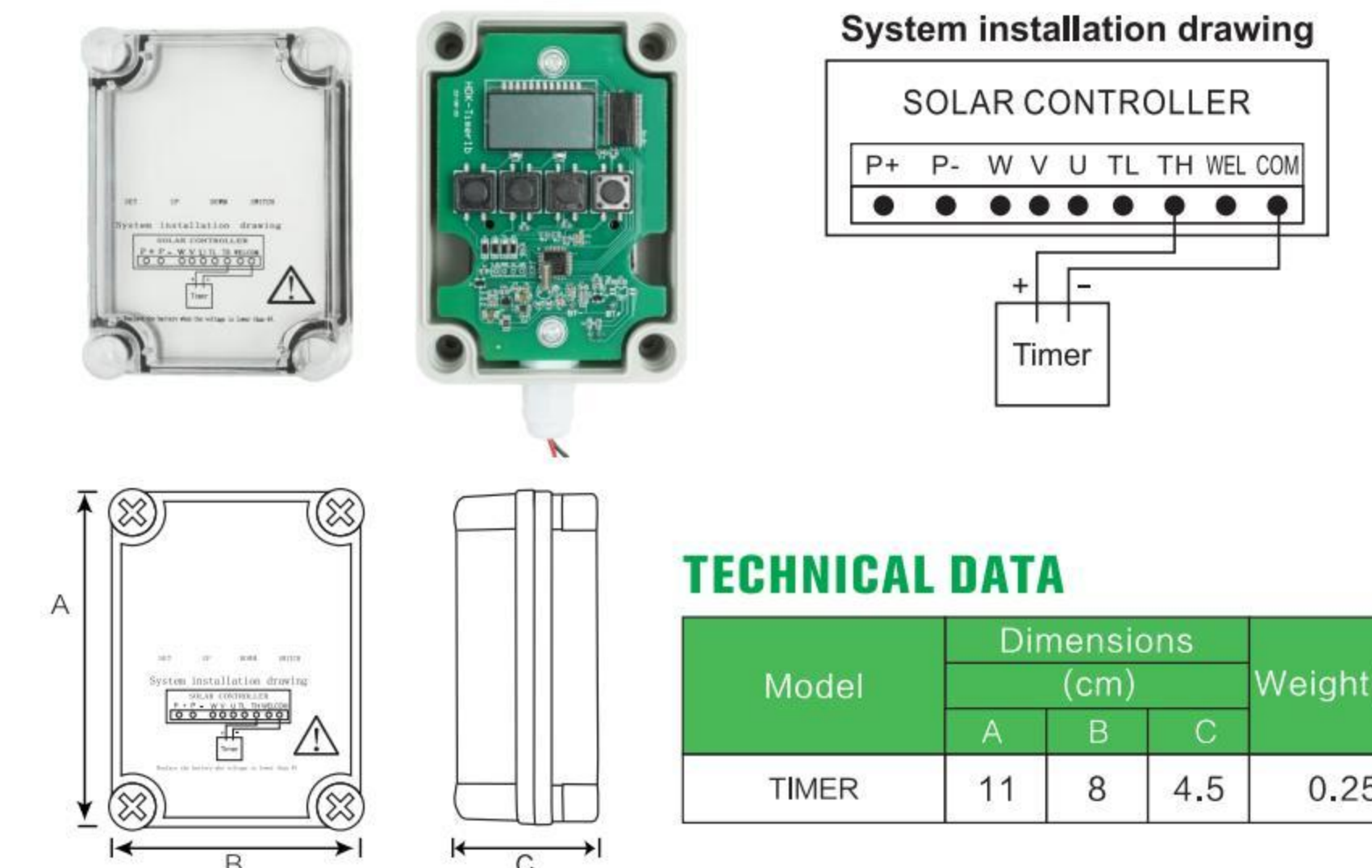
Model	Dimensions (cm)			Weight(kg)
	A	B	C	
DC controller	23.8	18	9.5	1.5
Wide voltage HV controller	24.3	23.5	11	2.2
AC/DC auto-switching controller (≤2.2KW)	24.3	23.5	11	2.3
AC/DC auto-switching controller (3KW-4KW)	32	23	11	2.5

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	17	<55	30-48	-15 ~ 60
DF-24	Rated 24V Pump	17	<55	30-48	-15 ~ 60
DF-36	Rated 36V Pump	17	<55	30-48	-15 ~ 60
DF-48	Rated 48V Pump	17	<105	60-90	-15 ~ 60
DF-72	Rated 72V Pump	17	<160	90-120	-15 ~ 60
DF-110	Rated 110V Pump	17	<210	110-150	-15 ~ 60
DF-72-A/D	Rated 72V-A/D Pump	17	<430	100-400	-15 ~ 60
DF-110-A/D	Rated 110V-A/D Pump	17	<430	110-400	-15 ~ 60
DF-150-A/D	Rated 150V-A/D Pump	17	<430	150-400	-15 ~ 60
DF-200-A/D	Rated 200V-A/D Pump	17	<430	200-400	-15 ~ 60
DF-300-A/D	Rated 300V-A/D Pump	17	<430	300-400	-15 ~ 60
DF-380-A/D	Rated 380V-A/D Pump	17	<780	480-750	-15 ~ 60
DF-110-HV	Rated 110V-HV Pump	17	<430	110-400	-15 ~ 60
DF-150-HV	Rated 150V-HV Pump	17	<430	150-400	-15 ~ 60
DF-200-HV	Rated 200V-HV Pump	17	<430	200-400	-15 ~ 60
DF-300-HV	Rated 300V-HV Pump	17	<430	300-400	-15 ~ 60

TIMER FOR SOLAR PUMP

Set the startup and shutdown time to intelligently control the operation of the solar pump. Can be matched with other factory's controllers.



SOLAR AERATOR

BRUSHLESS SOLAR PUMP



Solar Aerator



Solar air oxygenator



DC controller

AC/DC auto-switching controller (≤2.2KW)



Solar Paddle Wheel Aerator



Solar Impeller Aerator

SOLAR AERATOR

ITEM	Voltage	Best input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Solar panel	
							Open circuit voltage(VOC)	Power
DSA15-4.5-48-370	48V	60V-90V	370W	15m³/h	4.5m	3"	<105V	≥1.3*PUMP POWER
DSA25-5-48-750	48V	60V-90V	750W	27m³/h	5m	3"	<105V	≥1.3*PUMP POWER
DSA30-7-72-1100	72V	90V-120V	1100W	30m³/h	7m	3"	<160V	≥1.3*PUMP POWER
DSA40-6-110-1500	110V	110V-150V	1500W	40m³/h	6m	3"	<210V	≥1.3*PUMP POWER
DSA55-5-300-2200-A/D	AC220/DC300V	300V-400V	2200W	60m³/h	5m	4"	<430V	≥1.3*PUMP POWER

SOLAR AIR OXYGENATOR

ITEM	Voltage	Best input voltage(DC)	Power	Oxygenation rate(kg/h)	Covering Area(m²)	Solar panel	
						Open circuit voltage(VOC)	Power
DSAO-48-750	48V	60V-90V	370W	≥1.1	666-2000	<105V	≥1.3*PUMP POWER
DSAO-110-1500	110V	110V-150V	1500W	≥2.3	2000-4000	<210V	≥1.3*PUMP POWER
DSAO-300-2200	AC220/DC300V	300V-400V	2200W	≥3.4	2665-5328	<430V	≥1.3*PUMP POWER

SOLAR PADDLE WHEEL AERATOR

ITEM	Voltage	Best input voltage(DC)	Power	Oxygenation rate(kg/h)	Covering Area(m²)	Impeller quantity	Solar panel	
							Open circuit voltage(VOC)	Power
DSWA2-48-750	48V	60V-90V	750W	>1.1	666-3330	2	<105V	≥1.3*PUMP POWER
DSWA4-110-1500	110V	110V-150V	1500W	>1.9	2000-6660	4	<210V	≥1.3*PUMP POWER
DSWA6-300-2200-A/D	AC220/DC300V	300V-400V	2200W	>2.0	2665-8000	6	<430V	≥1.3*PUMP POWER

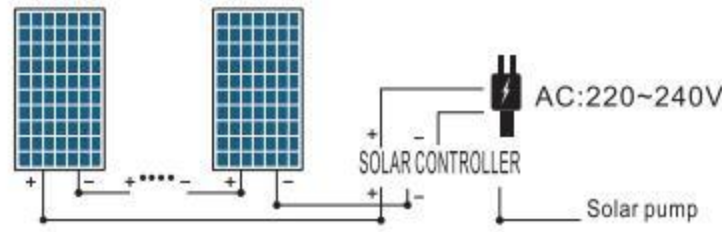
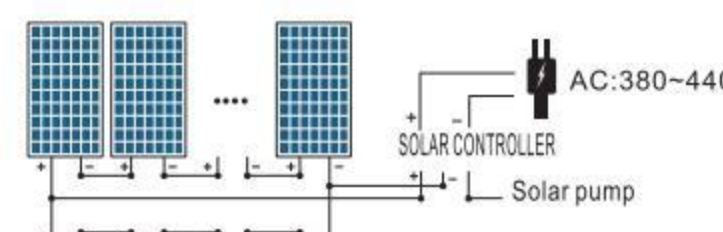
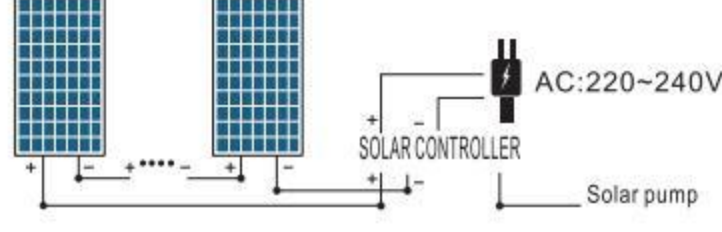

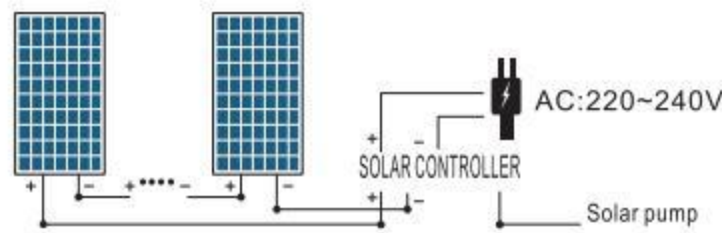
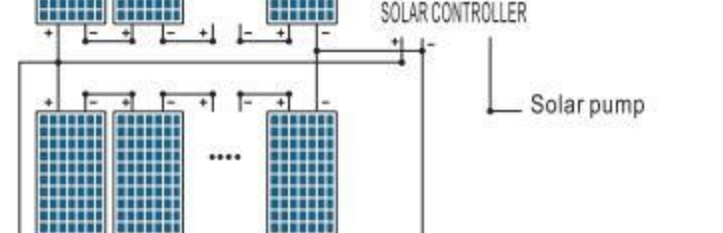
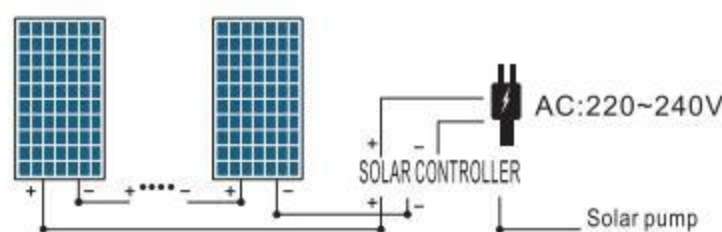
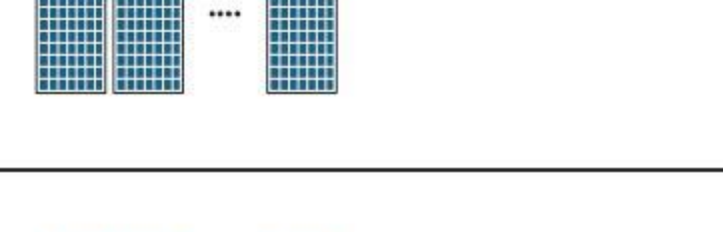
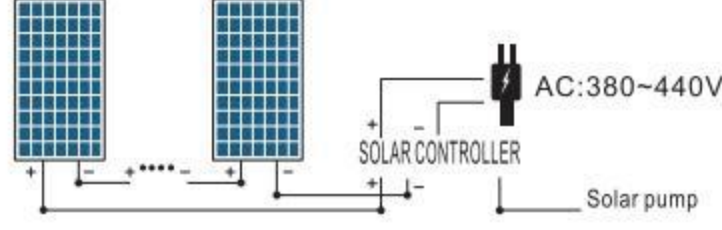
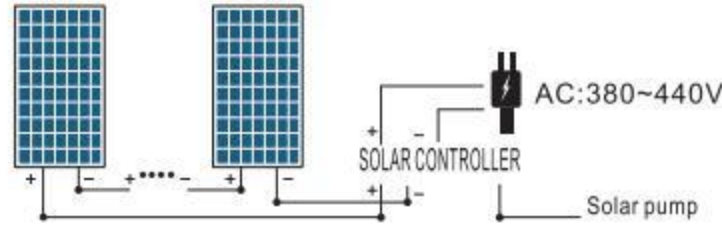
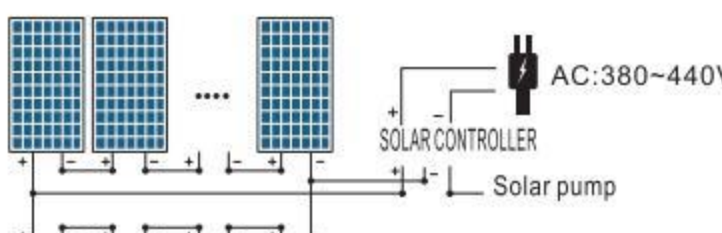
SOLAR IMPELLER AERATOR

ITEM	Voltage	Best input voltage(DC)	Power	Oxygenation rate(kg/h)	Covering Area(m²)	Solar panel	
						Open circuit voltage(VOC)	Power
DSIA-48-750	48V	60V-90V	750W	≥1.1	666-2000	<105V	≥1.3*PUMP POWER
DSIA-72-1100	72V	90V-120V	1100W	≥1.6	2000-2665	<160V	≥1.3*PUMP POWER
DSIA-110-1500	110V	110V-150V	1500W	≥2.3	2000-4000	<210V	≥1.3*PUMP POWER
DSIA-300-2200-A/D	AC220/DC300V	300V-400V	2200W	≥3.4	2665-5328	<430V	≥1.3*PUMP POWER

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

PUMP POWER 80W-12V Voc: 18V-55V	(1) (2) (3) SOLAR CONTROLLER Solar pump	Solar panel:150W*1PCS Solar panel:270W*1PCS Solar panel:330W*1PCS	PUMP POWER 750W-48V Voc: 30V-105V	(19) (20) SOLAR CONTROLLER Solar pump	Solar panel:270W*4PCS Solar panel:330W*4PCS
PUMP POWER 120W-24V 180W-24V 200W-24V 210W-24V 210W-36V Voc: 18V-55V	(4) (5) (6) SOLAR CONTROLLER Solar pump	Solar panel:150W*2PCS Solar panel:270W*1PCS Solar panel:330W*1PCS	PUMP POWER 750W-72V Voc: 55V-160V	(21) (22) SOLAR CONTROLLER Solar pump	Solar panel:270W*4PCS Solar panel:330W*3PCS
PUMP POWER 280W-24V 300W-24V Voc: 18V-55V	(7) (8) SOLAR CONTROLLER Solar pump	Solar panel:270W*2PCS Solar panel:330W*1PCS	PUMP POWER 900W-72V Voc: 55V-160V	(23) (24) SOLAR CONTROLLER Solar pump	Solar panel:270W*4PCS Solar panel:330W*3PCS
PUMP POWER 400W-36V Voc: 18V-55V	(9) (10) SOLAR CONTROLLER Solar pump	Solar panel:270W*2PCS Solar panel:330W*2PCS	PUMP POWER 1100W-72V Voc: 55V-160V	(25) (26) SOLAR CONTROLLER Solar pump	Solar panel:270W*6PCS Solar panel:330W*6PCS
PUMP POWER 370W-48V 400W-48V Voc: 30V-105V	(11) (12) SOLAR CONTROLLER Solar pump	Solar panel:270W*2PCS Solar panel:330W*2PCS	PUMP POWER 1100W-110V Voc: 60V-210V	(27) (28) SOLAR CONTROLLER Solar pump	Solar panel:270W*6PCS Solar panel:330W*6PCS
PUMP POWER 500W-48V 550W-48V Voc: 30V-105V	(13) (14) SOLAR CONTROLLER Solar pump	Solar panel:270W*4PCS Solar panel:330W*2PCS	PUMP POWER 1300W-110V Voc: 60V-210V	(29) (30) SOLAR CONTROLLER Solar pump	Solar panel:270W*8PCS Solar panel:330W*6PCS
PUMP POWER 600W-48V Voc: 30V-105V	(15) (16) SOLAR CONTROLLER Solar pump	Solar panel:270W*4PCS Solar panel:330W*4PCS	PUMP POWER 1500W-110V Voc: 60V-210V	(31) (32) SOLAR CONTROLLER Solar pump	Solar panel:270W*8PCS Solar panel:330W*8PCS
PUMP POWER 600W-72V Voc: 55V-160V	(17) (18) SOLAR CONTROLLER Solar pump	Solar panel:270W*3PCS Solar panel:330W*3PCS			

Solar panel recommendation for 220V-380V AC/DC & HV solar pump

<p>PUMP POWER 750W-220V AC:85V-280V DC:80V-430V</p>		<p>AC:220-240V Solar panel:270W*3-7PCS Solar panel:330W*4-6PCS</p>	<p>PUMP POWER 7500W-380V AC Vol . 380V-440V Dc vol. 480V-780V</p>  <p>Solar panel:270W*36PCS Solar panel:330W*30PCS</p>
<p>PUMP POWER 1100W-220V 1200W-220V AC:85V-280V DC:80V-430V</p>		<p>AC:220-240V Solar panel:270W* 6-8PCS Solar panel:330W*5-7PCS</p>	<p>PUMP POWER 9200W-380V AC Vol . 380V-440V Dc vol. 480V-780V</p>  <p>Solar panel:270W*45PCS Solar panel:330W*36PCS</p>
<p>PUMP POWER 1300W-220V 1500W-220V AC:85V-280V DC:80V-430V</p>		<p>AC:220-240V Solar panel:270W*8-9PCS Solar panel:330W*6-8PCS</p>	<p>PUMP POWER 11000W-380V AC Vol . 380V-440V Dc vol. 480V-780V</p>  <p>Solar panel:270W*54PCS Solar panel:330W*42PCS</p>
<p>PUMP POWER 2200W-220V AC:85V-280V DC:80V-430V</p>		<p>AC:220-240V Solar panel:270W*10PCS Solar panel:330W*8-9PCS</p>	<p>PUMP POWER 15000W-380V AC Vol . 380V-440V Dc vol. 480V-780V</p>  <p>Solar panel:270W*76PCS Solar panel:330W*60PCS</p>
<p>PUMP POWER 3000W-380V AC Vol . 380V-440V Dc vol. 480V-780V</p>		<p>AC:380-440V Solar panel:270W*15PCS Solar panel:330W*12PCS</p>	
<p>PUMP POWER 4000W-380V AC Vol . 380V-440V Dc vol. 480V-780V</p>		<p>AC:380-440V Solar panel:270W*19PCS Solar panel:330W*15PCS</p>	
<p>PUMP POWER 5500W-380V AC Vol . 380V-440V Dc vol. 480V-780V</p>		<p>AC:380-440V Solar panel:270W*26PCS Solar panel:330W*22PCS</p>	