EDWIN

2023 *Solar Pump Series*
INTRODUCTION MANUAL



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(TAIZHOU HAIPAI IMPORT AND EXPORT CO., LTD)

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ISO9001:2008 CE

CATALOGUE



EDWIN PUMP under the company of: GOLDEN FALCON INDUSTRIAL CO., LIMINTED which located in Daxi pump industrial area, Wenling, Zhejiang, China. We provide a wide range of water pumps and water treatment peripheral products to customers around the world. Our factory mainly produces five types of pumps: they are: circulating pumps, deep well pumps, sewage submersible pumps, surface pumps and solar pumps. At the same time, when customers have demand, we also provide customers with other related water treatment products by a professional working team from the company: Taizhou Haipai Import & Export Co., Ltd, the products such as: various water pipes, joints, pressure tanks, control switches and so on. We also assure you good quality, professional service, strict quality control. With a devoted team of highly experienced engineers, a completed procedure of rigorous testing, and a group of professional marketing members, EDWIN has long been recognized by customers,spreading its business worldwide.

EDWIN's products include more than 40 series, 2000 models, which are applied to a variety of fields, such as agriculture, forestry and irrigation water, living water, industrial water and pumping stations, municipal engineering, building water supply systems and sewage water treatment, etc.

With a vision to serve all customers with high quality products and considerate service , EDWIN has helped many customers become the leaders in their markets.

CEO: Edwina King

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EDWIN

SOLAR SURFACE PUMP

Environmental protection and energy saving



EDWIN

ECPM & ECPM-A/D

DCANDAC/DC BRUSHLESS CENTRIFUGAL SOLAR PUMP





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

FREE SPARE PARTS

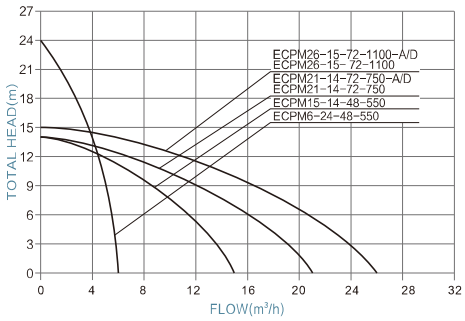


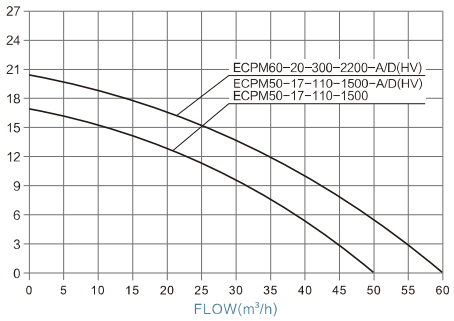
TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
ECPM6-24-48-550	48V	60V -90V	550W	6m³/h	24m	1"	0.6m	<105V	≥1.3*PUMP POWER
ECPM15-14-48-550	48V	60V -90V	550W	15m³/h	14m	1.5"	0.6m	<105V	≥1.3*PUMP POWER
ECPM21-14-72-750	72V	90V-120V	750W	21m³/h	14m	2"	0.6m	<160V	≥1.3*PUMP POWER
ECPM26-15-72-1100	72V	90V-120V	1100W	26m³/h	15m	2"	0.6m	<160V	≥1.3*PUMP POWER
ECPM50-17-110-1500	110V	110V-150V	1500W	50m³/h	17m	3"	0.6m	<210V	≥1.3*PUMP POWER

ITEM	(AC) Voltage	(DC) Voltage	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
ECPM21-14-72-750-A/D	85V-280V	80V-430V	750W	21m³/h	14m	2"	0.6m	<430V	≥1.3*PUMP POWER
ECPM26-15-72-1100-A/D	85V-280V	80V-430V	1100W	26m³/h	15m	2"	0.6m	<430V	≥1.3*PUMP POWER
ECPM50-17-110-1500-A/D ECPM50-17-110-1500-HV	85V-280V /	80V-430V	1500W	50m³/h	17m	3"	0.6m	<430V	≥1.3*PUMP POWER
ECPM60-20-300-2200-A/D ECPM60-20-300-2200-HV	85V-280V /	80V-430V	2200W	60m³/h	20m	4"	0.6m	<430V	≥1.3*PUMP POWER

HYDRAULIC PERFORMANCE CURVES





CONTROL BOX PARAMETERS



E-DC

DC controller

Normal DC controller, DC only.
Avilable for: 2/3/4EPC,4ELR,3ESS,3/4/6ESC
Size : 23.8 x 18 x 9.5 cm
Weight : 1.5Kg



E-A/D

AC/DC auto-switching controller≤2.2KW

Switch the if the DC and AC automaticly.
If the voltage is lower than the set value,it will automatically switch to AC.
Avilable for: AC/DC pump which power less than or equal 2.2 KW
Size : 24.3 x 23.5 x 11 cm
Weight : 2.3 Kg



E-HV

HV controller

Wide voltage controller, DC only.
Avilable for: All AC/DC pumps, except3KW-4KW model
Size : 24.3 x 23.5 x 11 cm
Weight : 2.2Kg



E-A/D

AC/DC auto-switching controller (3KW-4KW)

Switch the if the DC and AC automaticly.
Avilable for: AC/DC pumps which power over 2200W
Size : 32 x 23 x 11 cm
Weight : 2.5Kg



E-A/D

AC/DC auto-switching controller (5.5KW-22KW)

Switch the if the DC and AC automaticly.
Suitable for: AC/DC pump 5.5-22KW
Size:32 × 23 × 120 cm
Weight:5 KG

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 (℃)
E-DC-12	Rated 12V Pump	17	<55	30-48	-15-60
E-DC-24	Rated 24V Pump	17	<55	30-48	-15-60
E-DC-36	Rated 36V Pump	17	<55	30-48	-15-60
E-DC-48	Rated 48V Pump	17	<105	60-90	-15-60
E-DC-72	Rated 72V Pump	17	<160	90-120	-15-60
E-DC-110	Rated 110V Pump	17	<210	110-150	-15-60
E-A/D-72	Rated 72V-A/D Pump	17	<430	100-190	-15-60
E-A/D-110	Rated 110V-A/D Pump	17	<430	110-190	-15-60
E-A/D-150	Rated 150V-A/D Pump	17	<430	150-220	-15-60
E-A/D-200	Rated 200V-A/D Pump	17	<430	200-290	-15-60
E-A/D-300	Rated 300V-A/D Pump	17	<430	300-390	-15-60
E-A/D-380	Rated 380V-A/D Pump	17-23	<780	520-750	-15-60
E-HV-110	Rated 110-HV Pump	17	<430	110-190	-15-60
E-HV-150	Rated 150-HV Pump	17	<430	150-220	-15-60
E-HV-200	Rated 200-HV Pump	17	<430	200-290	-15-60
E-HV-300	Rated 300-HV Pump	17	<430	300-390	-15-60

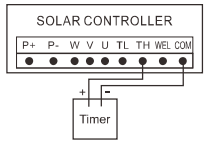
TIMER FOR SOLAR PUMP

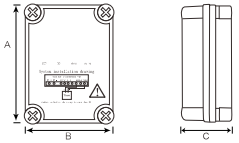
- Set the startup and shutdown time to intelligently control the operation of the solar pump.
- Can be matched with other factory's controllers.





System installation drawing

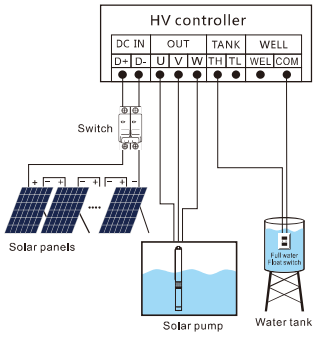




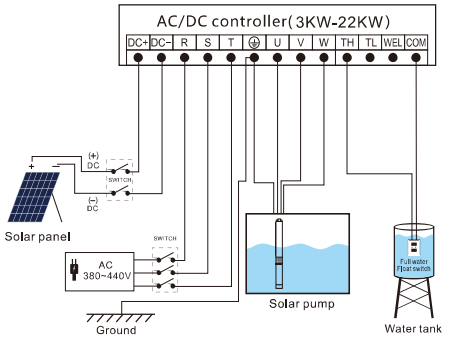
TECHNICAL DATA

Model	Dimensions (cm)			Weight(kg)
	A	B	C	
TIMER	11	8	4.5	0.25

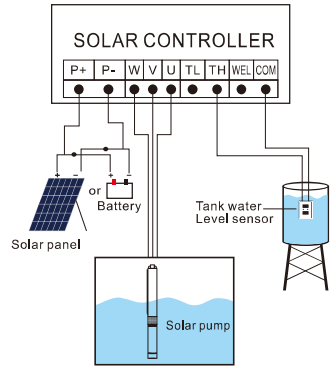
HV controller



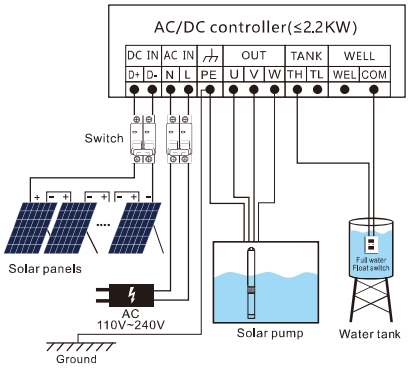
AC/DC controller



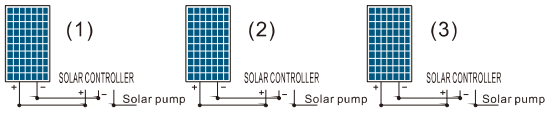
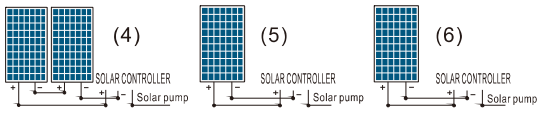
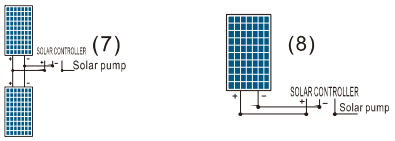
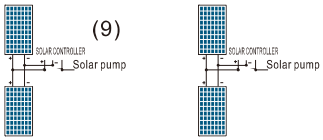
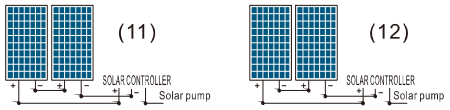
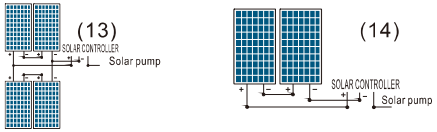
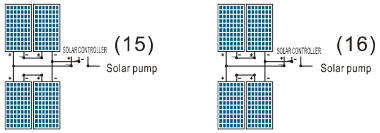
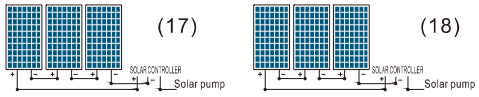
DC controller

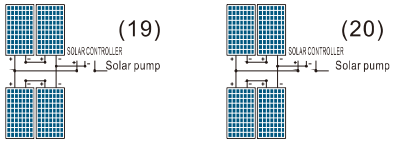
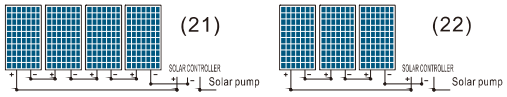
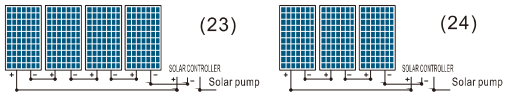
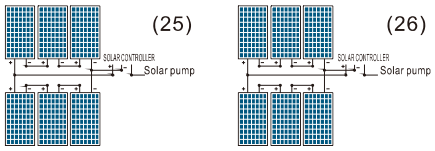
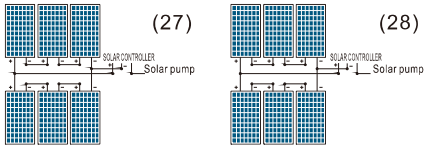
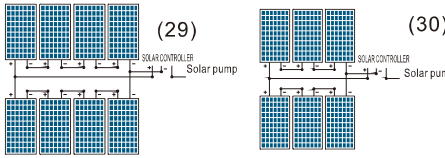
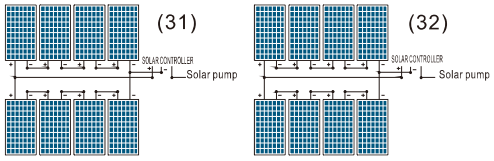


AC/DC controller

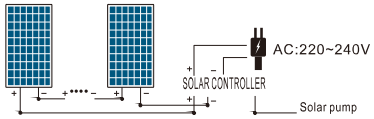
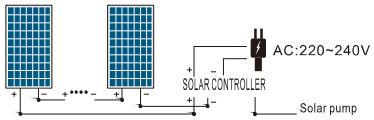
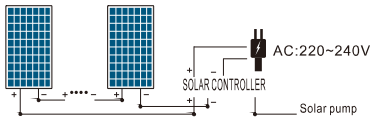
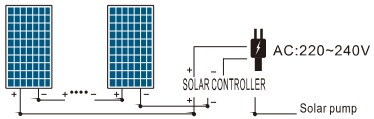
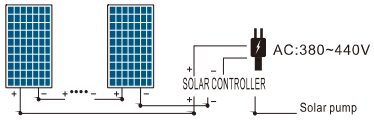
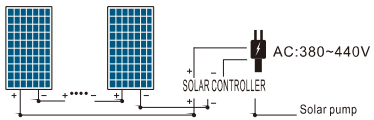
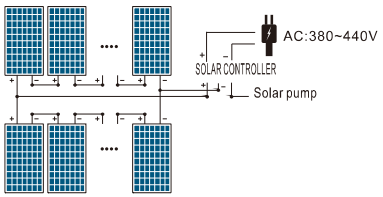


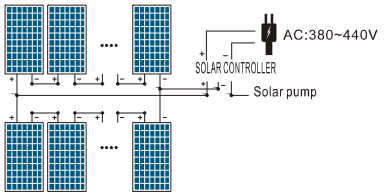
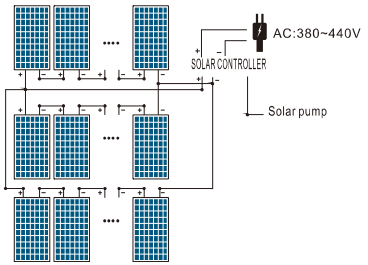
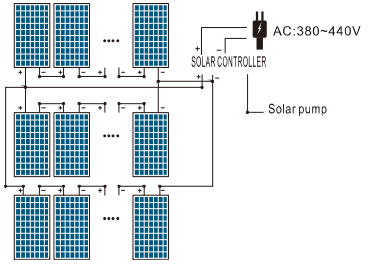
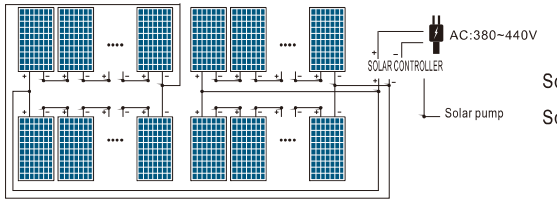
SOLAR PANEL RECOMMENDATIONS

PUMP POWER 80W-12V Voc: 18V~55V		Solar panel:150W*1PCS Solar panel:270W*1PCS Solar panel:330W*1PCS
PUMP POWER 120W-24V 180W-24V 200W-24V 210W-24V 210W-36V Voc: 18V~55V		Solar panel:150W*2PCS Solar panel:270W*1PCS Solar panel:330W*1PCS
PUMP POWER 280W-24V 300W-24V Voc: 18V~55V		Solar panel:270W*2PCS Solar panel:330W*1PCS
PUMP POWER 400W-36V Voc: 18V~55V		Solar panel:270W*2PCS Solar panel:330W*2PCS
PUMP POWER 370W-48V 400W-48V Voc: 30V~105V		Solar panel:270W*2PCS Solar panel:330W*2PCS
PUMP POWER 500W-48V 550W-48V Voc: 30V~105V		Solar panel:270W*4PCS Solar panel:330W*2PCS
PUMP POWER 600W-48V Voc: 30V~105V		Solar panel:270W*4PCS Solar panel:330W*4PCS
PUMP POWER 600W-72V Voc: 55V~160V		Solar panel:270W*3PCS Solar panel:330W*3PCS

PUMP POWER 750W-48V Voc: 30V~105V		Solar panel:270W*4PCS Solar panel:330W*4PCS
PUMP POWER 750W-72V Voc: 55V~160V		Solar panel:270W*4PCS Solar panel:330W*3PCS
PUMP POWER 900W-72V Voc: 55V~160V		Solar panel:270W*4PCS Solar panel:330W*3PCS
PUMP POWER 1100W-72V Voc: 55V~160V		Solar panel:270W*6PCS Solar panel:330W*6PCS
PUMP POWER 1100W-110V Voc: 60V~210V		Solar panel:270W*6PCS Solar panel:330W*6PCS
PUMP POWER 1300W-110V Voc: 60V~210V		Solar panel:270W*8PCS Solar panel:330W*6PCS
PUMP POWER 1500W-110V Voc: 60V~210V		Solar panel:270W*8PCS Solar panel:330W*8PCS

SOLAR PANEL RECOMMENDATIONS

PUMP POWER 750W-220V AC:85V–280V DC:80V–430V		Solar panel:270W*3–7PCS Solar panel:330W*4–6PCS
PUMP POWER 1100W-220V 1200W-220V AC:85V–280V DC:80V–430V		Solar panel:270W* 6–8PCS Solar panel:330W*5–7PCS
PUMP POWER 1300W-220V 1500W-220V AC:85V–280V DC:80V–430V		Solar panel:270W*8–9PCS Solar panel:330W*6–8PCS
PUMP POWER 2200W-220V AC:85V–280V DC:80V–430V		Solar panel:270W*10PCS Solar panel:330W*8–9PCS
PUMP POWER 3000W-380V AC Vol . 380V~440V Dc vol. 480V~780V		Solar panel:270W*15PCS Solar panel:330W*12PCS
PUMP POWER 4000W-380V AC Vol . 380V~440V Dc vol. 480V~780V		Solar panel:270W*19PCS Solar panel:330W*15PCS
PUMP POWER 5500W-380V AC Vol . 380V~440V Dc vol. 480V~780V		Solar panel:270W*26PCS Solar panel:330W*22PCS

PUMP POWER 7500W-380V AC Vol . 380V~440V Dc vol. 480V-780V		Solar panel:270W*36PCS Solar panel:330W*30PCS
PUMP POWER 9200W-380V AC Vol . 380V~440V Dc vol. 480V-780V		Solar panel:270W*45PCS Solar panel:330W*36PCS
PUMP POWER 11000W-380V AC Vol . 380V~440V Dc vol. 480V-780V		Solar panel:270W*54PCS Solar panel:330W*42PCS
PUMP POWER 15000W-380V AC Vol . 380V~440V Dc vol. 480V-780V		Solar panel:270W*76PCS Solar panel:330W*60PCS