



SOLAR POWER PUMP SYSTEM

USER MANUAL

MODEL: 4SSPC14/320-AD380/7.5KW

- Thanks for purchasing our solar pump products!
- Before using, please carefully read the manual, so as to ensure the correct installation and satisfied performance!



Safety tips

- To avoid electroshock accident, the grounding wire must be reliably connected.
- Disconnect the power before any operation.
- Forbidden to carry the pump by the cable.
- Forbidden to dry run the pump.
- Do not touch the pump during the working, and no wash, swim or animals around.
- Damage due to transportation, incorrect installation, or improper use, will be out of warranty.



WARNING

The controller will be burned out when the open circuit voltage higher than our setting.

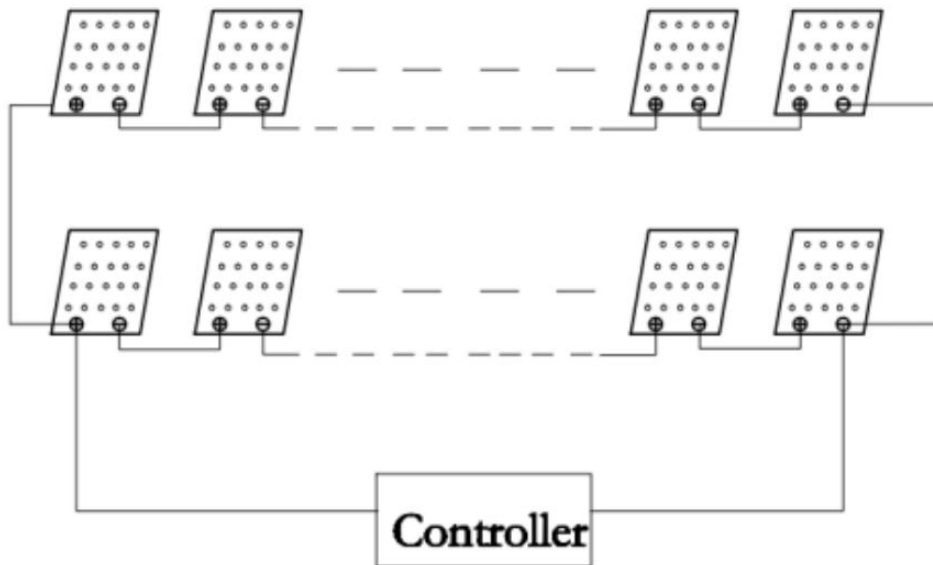
ตัวควบคุมจะถูกเผาไหม้ออกเมื่อแรงดันไฟฟ้าวงจรเปิดสูงกว่าการตั้งค่าของเรา

El controlador se quemará cuando el voltaje del circuito abierto sea mayor que nuestro ajuste.

سيتم حرق وحدة التحكم عندما يكون الجهد الكهربائي المفتوح أعلى من إعدادنا

12. Solar Panel Configure and Connection way

Configured by 36Vmp(44Voc) Solar Panel



INPUT:

Solar Panel VMP= 36 Vdc
 Solar Panel VOC= 44 Vdc
 Solar Panel Power≥ 540 W
 Solar Panel Quantity= 22 PCS

OUTPUT:

VMP= 396 Vdc
 VOC= 484 Vdc
 Power≥ 11880 W(MAX)

1. Controller model specifications

Type	power capacity (KVA)	Input current (A)	output current (A)	Adapted motor (kw)	notes
Three-phase power supply : 380~440v(-10%~10%) 50HZ/60HZ					
JL-197K1500-380V	23.8	21.9	17.0	7.5	

2. Controller technical specifications

item		technical specifications
input	Rated voltage/frequency	3PH: 380V~440V; frequency: 50Hz/60Hz;DC:550V
	Permissible voltage operating range	3PH: 380V~480V; frequency: ±5%;DC:300V ~ 750V
output	output voltage	0V ~ Rated input voltage
Main control performance	Motor type	Permanent magnet synchronous motor
	control mode	Speed sensorless vector control
	carrier frequency	5KHz
	Maximum adjustable speed	6500rpm
	Speed setting resolution	100rpm
	Steady speed accuracy	± 1%
Display and	Acceleration and deceleration curve	Speed sensorless vector control for linear acceleration and deceleration changes, with an adjustable acceleration and deceleration time range of 5S to 20S
	Nixie tube display	Display parameters

failure			wait for 10 minutes before restarting 2. The motor wire is short circuited to ground, check the motor wire
Data storage failure	E100	1.EEPROMdata storage exception	1. Power off and restart

3.2. Weak current port

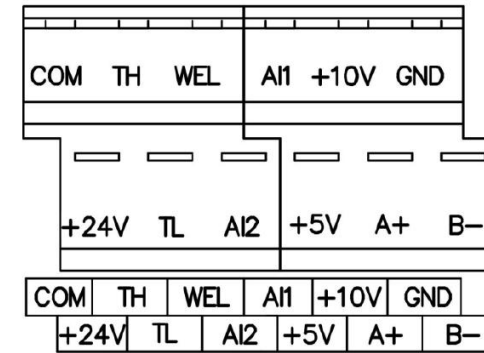


Figure 1-1 Schematic diagram of electrical terminal distribution in the control circuit



Terminal type	Terminal identification	name	explain
Power	+10V - GND	+10V power supply	Provide +10V power supply externally, maximum output current: 10mA It is generally used as the working power supply of external Potentiometer, and the resistance range of Potentiometer is 1KΩ~5KΩ
	+24V - COM	+24V power supply	Provide +24V power supply externally, usually used as a working power supply for digital input and output terminals and an external sensor power supply, with a maximum output current of 200mA
	+5V - GND	+5V power supply	Provide +5V power supply externally, maximum output current: 10mA Generally used as an external serial communication power supply
Analog Input	AI1	Voltage type pressure sensor signal input	1. Connected to 10V, 5V pressure sensor signal input
	AI2	Current type pressure sensor signal input	1. Connected to 24V pressure sensor signal input

10. Fault alarm and troubleshooting instructions

Fault name	Interface display	Troubleshooting the cause of the malfunction	Fault handling measures
Hardware overcurrent protection	P0	<ol style="list-style-type: none"> 1. There is a short circuit in the controller output circuit 2. Abnormal controller driver module 3. Abnormal controller power inverter module 4. The acceleration or deceleration time of the controller is set too short 5. The motor parameters do not match the controller 6. Low input voltage 7. Starting the rotating motor 	<ol style="list-style-type: none"> 1. Check if the motor model matches the controller model 2. Check the connection between the controller and the motor circuit 3. To eliminate the hardware issue with the controller, remove the motor wire and attempt to start it. If P0 fault is still reported, the hardware is damaged 4. Increase acceleration or deceleration time 5. Avoid starting the controller while the motor is rotating
Overvoltage protection	P51	<ol style="list-style-type: none"> 1. Controller input voltage too high 2. Acceleration or deceleration time set too short 	<ol style="list-style-type: none"> 1. Adjust the input voltage to the normal range 2. Increase acceleration or deceleration time
Undervoltage protection	PL	<ol style="list-style-type: none"> 1. Controller input voltage too low 	<ol style="list-style-type: none"> 1. Adjust the input voltage to the normal range
Output phase loss	P43	<ol style="list-style-type: none"> 1. Abnormal connection between controller and motor 2. Controller motherboard hardware damage 	<ol style="list-style-type: none"> 1. Check the connection terminals between the motor and the controller 2. Seeking technical support
Power inverter module overheating	P60	<ol style="list-style-type: none"> 1. The lead connection of the controller temperature sensor is abnormal 2. The controller temperature sensor is abnormal 3. The ambient temperature is too high 4. Fan or air duct malfunction 	<ol style="list-style-type: none"> 1. Check if the temperature sensor connection of the controller is abnormal 2. Reduce ambient temperature 3. Choose an open and ventilated environment as much as possible 4. Check if there are any foreign objects or abnormalities in the fan and air duct

4. Introduction to Operation and Display Interface

Using the operation panel, the controller can be operated to modify its functional parameters, monitor its working status, and control its operation (running, stopping). Its appearance and functional area are shown in the following figure:

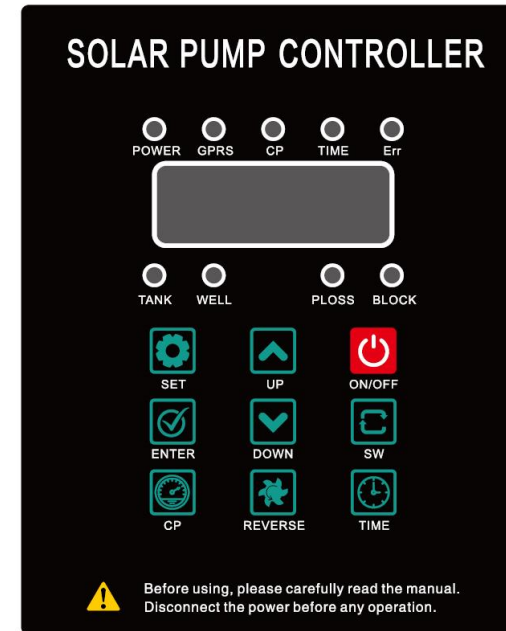







Figure 1-2 Schematic diagram of the operation panel

4.1. LED indicator light

- Power display indicator light: The motor is running and the running indicator light is constantly on. When the motor transitions from running to stopping, the running indicator light flashes. When the motor is in a stopped state, the running indicator light goes out.
- 4G display indicator light: When the IoT signal is full, the indicator light is

			value to 97)
F0-21	Slow down (shutdown/recovery) speed	Determine by motor speed model	The smaller this value, the slower the speed (decrease/increase) The smaller this value, the faster the speed (decrease/increase)
F0-22	Constant pressure setting pressure	30	Unit : M Constant pressure mode: set the pressure. When adjusting F0-22, the F0-23 will be linked and adjusted according to the ratio of F0-18
F0-23	Constant pressure starting pressure	24	Unit : M
F0-24	Set the direction of motor operation	0	0: Same direction 1: Opposite direction
F0-25	Set motor output current limit	Determined by model	Unit : 0.1A
F0-26	Set the percentage of motor output weak magnetic field	50	Unit : %
F0-27	Set motor bus current limit	1.125 times the rated model	Unit : 0.1A
F0-28	Current correction	1000	Unit : 0.1A
F0-29	Local scheduled running time	60	Unit : minute
F0-30	Local timed cycle time	0	Unit : minute,When the value is 0, the default is to run only once
F0-31	Effective value of floating ball	1	0: Turn off floating ball function 1: TH, TL, WELL float low effective 2: TH, TL, high efficiency, WELL low efficiency 3: TH, TL, WELL highly effective
F0-32	Motor line length self-learning enable	1	0: Unable 1: Enable
F0-33	Pressure start stop mode shutdown pressure	30	Unit : M
F0-34	Start pressure/pressure shutdown mode ratio	60	Unit : 1%
F0-35	Pressure start stop mode activation pressure	18	Unit : M
F0-36	Input phase loss software detection	1	0: Unable 1: Enable
F0-37	AC power limitation	15000	Unit : W
F0-38	Voltage drop protection	60	0: Turn off voltage drop protection

	Switch	Motor speed ->Input voltage -> Output power ->Current pressure
	Power	Short press of this button can control the start and stop of the device, and in case of a fault, short press can reset the fault
	Constant pressure	In non constant pressure mode: enter constant pressure mode In constant pressure mode: return to speed mode
	Switch steering	Switch steering
	timing	In non timed mode: Enter timed mode In timed mode: return to speed mode

5. Operation and operation instructions (except for the mode button, the menu F0-13 can be adjusted)

5.1. Speed mode

5.1.1. Equipment startup

- (1) Button start: The water pump is in a shutdown state, and short press the power button to switch to start.
- (2) Fault self recovery start: If the current controller is in a fault state and the fault recovery time is up, the controller will automatically attempt to start the device.

5.1.2. Equipment shutdown

- (1) Button shutdown: When the controller is driving the equipment normally, short press the power button to stop. After generating a shutdown command, the equipment will be slowly shut down.

F0-03	Voltage protection return difference	20	Unit:V
F0-04	Undervoltage protection voltage	Battery powered undervoltage value varies with the model	Unit:V
F0-05	The corresponding speed of dry turning power point 1 varies with the model	Determined by model	Unit:W
F0-06	The corresponding speed of dry turning power point 2 varies with the model	Determined by model	Unit:W
F0-07	The corresponding speed of dry turning power point 3 varies with the model	Determined by model	Unit:W
F0-08	The corresponding speed of dry turning power point 4 varies with the model	Determined by model	Unit:W
F0-09	Set the startup speed	stochastic	Unit:Rpm
F0-10	Motor operation status after power on	2	0: Default motor shutdown 1: Default motor start 2: Execute according to the state of the last power outage
F0-11	Set maximum output power	Determined by model	Unit:KW
F0-12	Set temperature protection value	80	Unit:°C
F0-13	Working mode selection	0	0: Constant voltage mode 1: Speed mode 2: Pressure start stop mode 3: Local timing mode 4: 4G timing mode
F0-14	Sensor model	3	Pressure sensor selection: 0: 24V,4-20ma, 10Bar 1: 10V, 10Bar 2: 5V, 10Bar 3: 24V,4-20ma, 16bar 4: 10V, 16Bar 5: 5V, 16Bar 6: 24V,4-20ma, 25Bar 7: 10V, 25Bar 8. 5V, 25Bar

5.2.4. Display status switching

(1) Short press the switch button. Switch pressure ->voltage ->current ->power ->speed.

5.3. Pressure start stop mode

5.3.1. Equipment startup

(1) Pressure start stop start: Short press the power button to put the water pump in standby mode. If the pressure is detected to be lower than the starting pressure, the water pump will automatically start.

(2) Fault self recovery start: The current controller is in a fault state. When the fault recovery time is up and the pressure is lower than the starting pressure, the controller will automatically attempt to start the device.

5.3.2. Equipment shutdown

(1) Button shutdown: Short press the power button to turn the water pump into the OFF state and shut down.

(2) Pressure start stop stop: Short press the power button to put the water pump in standby mode. If the pressure is detected to be greater than the shutdown pressure, the water pump will automatically stop.

(3) Fault shutdown: If the current controller is in operation and the controller system malfunctions, the controller will immediately shut down the equipment.

5.3.3. Set

(1) Shutdown pressure setting: Water pump operation and shutdown mode. Short press the up and down buttons to automatically enter the shutdown pressure setting interface. Press the up and down buttons again briefly to set the shutdown pressure.

(2) Starting pressure setting: When setting the shutdown pressure, the starting pressure will be automatically adjusted in a certain proportion (such as 60%). If you want to set the starting pressure separately, in the shutdown pressure setting interface, short press the switch button to switch to the starting pressure setting interface. Short press the up and down buttons to set the starting pressure.

(3) Menu difference: the last Decimal separator of the shutdown pressure setting menu is not lit. The last Decimal separator of the startup setting menu lights up.

5.3.4. Display status switching

(1) Short press the switch button. Switch pressure ->voltage ->current ->power ->speed.

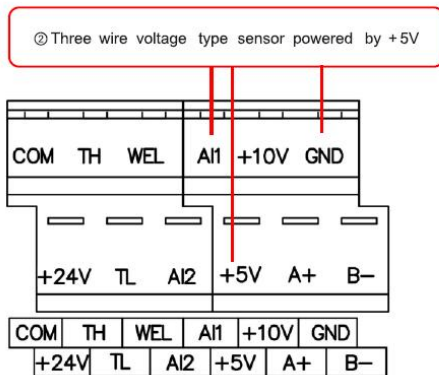
5.4. Timing mode

5.4.1. Equipment startup

(1) Timing start: Short press the power button, the running time is less than the set

Terminal identification	name	explain
AI1	Voltage analog signal input port	Voltage type sensor output connected to AI1 port
+10V	10V output power port	The positive terminal of the voltage type sensor is connected to the+10V interface
GND	Weak current signal GND port	Voltage type sensor GND port connected to GND port

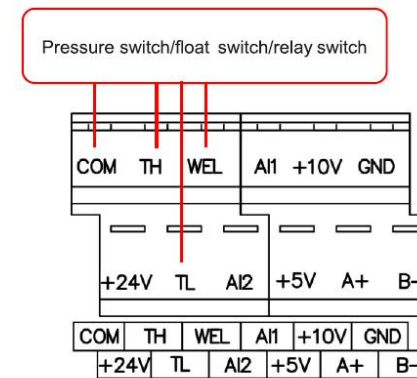
6.2.3. Three wire voltage type sensors powered by+5V; Output 0-5V



Terminal identification	name	explain
AI1	Voltage analog signal input port	Voltage type sensor output connected to AI1 port
+5V	5V output power port	The positive terminal of the voltage type sensor is connected to the+5V interface
GND	Weak current signal GND port	Voltage type sensor GND port connected to GND port

6. Sensor installation instructions

6.1. Schematic diagram and operation method of using pressure switches, float switches, or relays to control start stop



Terminal identification	name	explain
TH	High water level float	Connect one end of the TH switch and the other end of the COM switch. When the switch is closed, the motor stops and the system enters a high water level protection state. When the switch is disconnected, the high water level protection state is eliminated.
TL	Low water level float	Connect TL to one end of the switch and COM to the other end of the switch. When the switch is closed, the system will jump from other water level states to low water level State and immediately start the motor. When the switch is turned off, the low water level state is eliminated.
WEL	Well location water shortage float	Connect one end of the WEL switch and the other end of the COM switch. When the switch is closed, the motor stops and the system

		enters a water shortage protection state for the well position. When the switch is turned off, the water shortage in the well position is eliminated.
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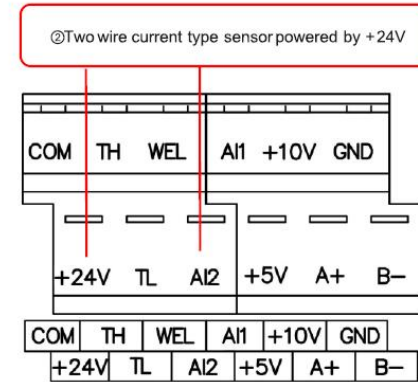
TH, TL, WEL Logic Description Table

(If you need to change the valid value of TH.TL.WELL, you need to enter the menu settings, (F0-31))

6.2. Remote pressure gauge and analog pressure sensor control

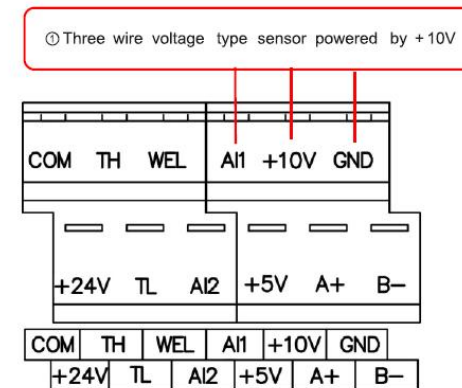
The wiring method is shown below. The software defaults to using 24V, 4-20mA, 16Ba current type pressure sensors. Selecting other sensors requires setting menu (F0-14)

6.2.1. 24V current type pressure sensor



Terminal identification	name	explain
+24V	24V output power port	The positive end of the current type sensor is connected to a 24V interface
AI2	Current analog signal input port	The negative terminal of the current type sensor is connected to this port

6.2.2. Three wire voltage type sensors powered by +10V; Output 0-10V.



running time, and the water pump enters the timed running state.

(2) Timed cycle repeat start: The water pump is in standby mode, and the cycle time is greater than the timed running time. When the time reaches the cycle time, the water pump cycle repeat start.

(3) Fault self recovery start: If the current controller is in a fault state and the fault recovery time is up, and the running time is less than the set running time, the controller will automatically attempt to start the device.

5.4.2. Equipment shutdown

(1) Button shutdown: Short press the power button to turn the water pump into the OFF state and shut down.

(2) Timed shutdown: Short press the power button to put the water pump in standby mode. If the running time exceeds the set running time, the water pump will stop.

(3) Fault shutdown: If the current controller is in operation and the controller system malfunctions, the controller will immediately shut down the equipment.

5.4.3. Set

(1) Running time setting: The water pump operates and stops in mode. Short press the up and down buttons to automatically enter the running time setting interface. Press the up and down buttons again briefly to set the running time.

(2) Cycle time setting: Run the time setting menu, briefly press the switch button to switch to the cycle time setting interface. Short press the up and down buttons to set the start cycle time.

(3) Menu difference: the last Decimal separator of the running time setting menu is not lit. The last Decimal separator of the cycle time setting menu lights up. When it is less than 24 hours, the display is "hours. minutes"; When it is greater than 24 hours, "Days. Hours" is displayed.

(4) Speed setting: It is necessary to switch to the rotation speed mode to adjust the speed or adjust the speed through the menu (F0-09).

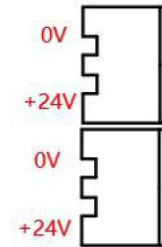
5.4.4. Display status switching

(1) Short press the switch button: Switch time ->Voltage ->Current ->Power ->Speed.

(2) Time display interface: When the time is less than 60 minutes, "minutes. seconds" is displayed; when the hour is 24 hours, "hours. minutes" is displayed, and minutes flash. When it is greater than 24 hours, "Days, Hours" will be displayed, and the days will flash.

7. Fan installation instructions

The wiring method is shown in the following figure. Fan specifications: voltage 24V, current 0.2A, withstand voltage 35V.



8. Maintenance

1. After running the electric pump for a total of 3000 hours, if you mind checking the vulnerable parts (such as bearings, sealing rings, mechanical seals, etc.) once, otherwise damage to the parts will cause greater losses.
2. If the electric pump is not used for a long time, it should be cleaned and dried, and placed in a ventilated and dry place for proper storage.

9. List of Controller Functional Parameters

Function Code	Name	Factory Value	Description
F0-00	User modification permissions	0	12: Obtain modification permissions 21: Reset User Settings
F0-01	Software dry transfer protection enable	1	0: Unable 1: Enable
F0-02	Power supply mode	3	2: DC photovoltaic power supply 3: AC380

(2) Fault shutdown: If the current controller is in operation and the controller system malfunctions, the controller will immediately shut down the equipment.

5.1.3. Set

(1) Target speed setting: Water pump operation and shutdown modes. Short press the up and down buttons to automatically enter the speed adjustment menu. Short press the up and down buttons again to set the target running speed.

5.1.4. Display status switching

(1) Short press the switch button. Switch voltage ->current ->power ->speed.

5.2. constant pressure mode

5.2.1. Equipment startup

(1) Constant pressure start: Short press the power button to put the water pump in standby mode. If the pressure is detected to be lower than the starting pressure, the water pump will automatically start.

(2) Fault self recovery start: The current controller is in a fault state. When the fault recovery time is up and the pressure is lower than the starting pressure, the controller will automatically attempt to start the device.

5.2.2. Equipment shutdown

(1) Button shutdown: Short press the power button to turn the water pump into the OFF state and shut down.

(2) Constant pressure shutdown: Short press the power button to put the water pump in standby mode. The water pump automatically monitors whether the water outlet is turned off. If the water outlet is turned off, the water pump automatically stops.

(3) Fault shutdown: If the current controller is in operation and the controller system malfunctions, the controller will immediately shut down the equipment.

5.2.3. Set

(1) Target pressure setting: Water pump operation and shutdown modes. Short press the up and down buttons to automatically enter the target pressure setting interface. Short press the up and down buttons again to set the target pressure for operation.

(2) Starting pressure setting: When setting the target pressure, the starting pressure will be automatically adjusted in a certain proportion (such as 80%). If you want to set the starting pressure separately, in the target pressure setting interface, short press the switch button to switch to the starting pressure setting interface. Short press the up and down buttons to set the starting pressure.

(3) Menu difference: the last Decimal separator of the target pressure setting menu is not bright. The last Decimal separator of the startup setting menu lights up.






F0-15	Constant pressure manual shutdown parameters. Shutdown speed	0	When the pressure maintaining condition of the water pump is poor or it is difficult to stop, the shutdown speed can be manually set. When the pressure is greater than or equal to the set pressure value, and the speed is less than this value, the machine stops.
F0-16	Constant pressure automatic non-stop parameter shutdown sensitivity	30	1. Without stopping the machine, first check if a pressure tank is installed and if the pressure tank is effective. 2. The higher the shutdown sensitivity, the easier it is to shut down. If there is no shutdown, increase this value.
F0-17	Constant pressure automatic shutdown parameter Misoperation shutdown parameter	Determined by model	Incorrect shutdown, increase this value to zero. Turn off the automatic shutdown function.
F0-18	Constant pressure starting pressure/set pressure ratio	80	Unit : %
F0-19	Pressure value correction	100	Increase this value and decrease it. The correction method is as follows (actual maximum pressure - actual minimum pressure) * 100/(display maximum pressure - display minimum pressure). If the actual pressure is 90, display 105, actual pressure is 5 meters, and display 10 meters, correct this value (90-5) * 100/(105-10)
F0-20	0 pressure correction	100	This program does not display negative pressure, and negative pressure is displayed as 0. If the pressure value is low, The actual pressure is high. Increase this value (if it is displayed as 0 and the actual pressure is 3 meters, change this value to 103). Conversely, if it is displayed as 3 and the actual pressure is 0 meters, change this

always on, flashes quickly when the signal is 3 bars, slowly when the signal is less than 3 bars, and turns off when the signal cannot be received.

- Constant voltage display indicator light: If the system switches to constant voltage mode, this indicator light remains on.
- Timing display indicator light: If the system switches to timing mode, this indicator light is always on.
- Fault display indicator light: If the system malfunctions, the indicator light will remain on.
- Water shortage display indicator light: If the system is in a water shortage fault protection state, this display light is always on.
- Water full display indicator light: If the system is in a water full fault protection state, the display light is always on.
- Phase loss display indicator light: If the system is in a phase loss fault protection state, this indicator light is constantly on.
- Card display indicator light: If the system is in a card fault protection state, this indicator light is always on.

	difference		Unit : V
F0-39	Fault recovery times	0	
F0-40	Constant pressure ring KP value adjustment	1000	When using a high pressure tank, increase this value appropriately
F0-41	Constant pressure ring KI value adjustment	1000	When using a high pressure tank, increase this value appropriately
F0-44	Overpressure protection threshold	30	Unit : M When the actual pressure exceeds the set pressure by more than this value, the controller will shut down for protection
F0-45	Sensor disconnection protection enabled	1	Sensor disconnection protection enabled

4.2. Key Description

Key	name	unction Description
 SET	Set	Long press and hold this button for 2 seconds to enter the menu (FN-XX) settings. After the settings are completed, long press and hold this button for 2 seconds to exit the menu
 ENTER	Enter	In menu settings, short press this button to confirm and save the menu settings, and return to the previous interface.
 UP	Up	Short press this button to increase the set value of the corresponding parameter
 DOWN	Down	Short press this button to reduce the set value of the corresponding parameter
 SW	Switch	Short press this button to switch the display content, which will be switched in the following order:

Digital input	TH - OP	Water tank full float interface	1. Input impedance: 2.4K Ω 2. Voltage range at level input: 9-30V
	TL - OP	Water tank full float interface	
	WEL - OP	Water shortage float signal of well location	
communication interface	A+	485 communication terminal A	Used for 485 communication
	B-	485 communication terminal B	

Motor stall	P44	<ol style="list-style-type: none"> Motor start failure Shutdown during motor operation Abnormal motor speed 	<ol style="list-style-type: none"> Check if the motor model matches the controller model Check if the motor bearings are abnormal Check if there are any foreign objects on the impeller of the pump body and if the motor load is abnormal. Check if the connection between the controller and the motor is loose or abnormal, and measure the impedance between the motor wires to determine.
Motor out of step	P46	<ol style="list-style-type: none"> Motor start failure Shutdown during motor operation Abnormal motor speed 	<ol style="list-style-type: none"> Check if the motor model matches the controller model Reduce the length of the extension cable between the motor and the controller Check if the impedance between the motor phase lines is consistent
Motor overspeed	P47	<ol style="list-style-type: none"> Abnormal motor speed 	<ol style="list-style-type: none"> Check if the motor model matches the controller model Reduce the length of the extension cable between the motor and the controller
Dry running/load shedding protection	P48	<ol style="list-style-type: none"> The motor operating power is lower than the set dry running protection power value 	<ol style="list-style-type: none"> Check if the motor load is abnormal Check if the parameter settings for F0-05-F0-08 dry power point are correct
Water tank level protection	FULL	<ol style="list-style-type: none"> DI1 terminal input signal is recognized as a valid signal 	<ol style="list-style-type: none"> Check if the water tank level is full Check if the TH terminal line connection is correct
Water tank level protection	P62	<ol style="list-style-type: none"> The output value of the pressure sensor does not match the setting 	<ol style="list-style-type: none"> Check if the set model of the pressure sensor is correct Check if the AI1/AI2 terminal connections are correct
Pressure value overvoltage protection	P63	<ol style="list-style-type: none"> Rapid closing of valve pressure value skyrocketing 	<ol style="list-style-type: none"> Restore normal operation after opening the valve
Input phase failure	E13	<ol style="list-style-type: none"> Abnormal connection between controller and power cord 	<ol style="list-style-type: none"> Check the connection terminals between the power cord and the controller
Return water	P1	<ol style="list-style-type: none"> Abnormal bus voltage 	<ol style="list-style-type: none"> The water pump is returning water

key operation	Key function selection	Display parameters with separate and combined button functions to prevent accidental touch
environment	Place of use	Indoor, not exposed to direct sunlight, free from dust, corrosive gases, flammable gases, oil mist, water vapor, dripping water or salt, etc
	Altitude	Derating for use above 1000 meters, with a 1% reduction for every 100 meters increase
	ambient temperature	-15 °C ~ +60 °C (The ambient temperature is between 50 °C ~ 60 °C, please reduce the rating for use)
	humidity	Less than 95% RH, no condensation of water droplets
	Storage temperature	-20°C ~ +60°C

3. Controller wiring diagram

3.1. Strong current port

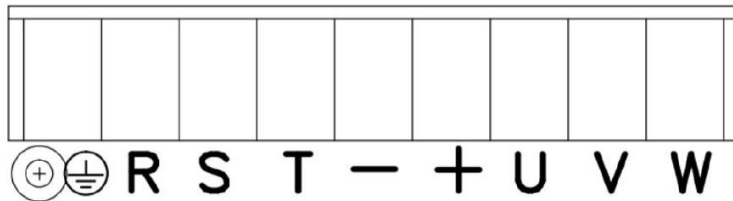


Figure 1-0 Schematic diagram of electrical terminal distribution in the main circuit

Terminal type	Terminal identification	name	explain
input	R, S, T	Three phase power input terminal	Three phase 380V current power supply connection terminal
	(-), (+)	DC bus positive and negative input terminals	DC bus power connection terminal
output	U, V, W	Frequency converter output terminal	Connect three-phase motor
		Grounding terminal	Connect the grounding terminal

11. 4SSPC14/320-AD380/7.5KW Pump Description

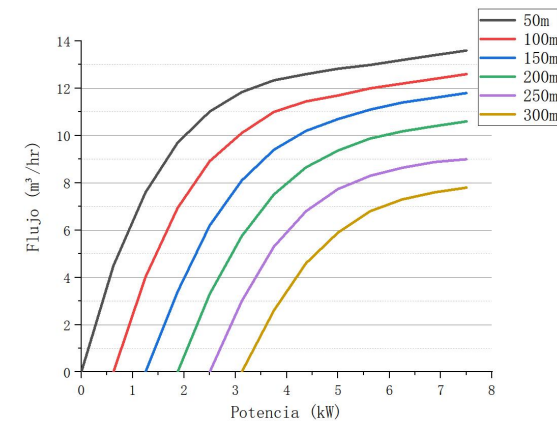
Material of Parts

PARTS OF PUMP	DESCRIPTION OF MATERIAL
Motor	Full Oil Permanent Magnet Brushless DC Motor (Without Hall)
Outlet / Inlet	304 Stainless Steel
Pump Body	304 Stainless Steel
Motor Body	304 Stainless Steel
Impeller	304 Stainless Steel and Nylon
Screw	304 Stainless Steel
Cable	3 Cores / 2 Meters / 2.0mm ²

Pump Specification

ITEM	PARAMETER VALUES
Rated Voltage	380 VDC/VAC
Rated Power	7.5 KW
MAX. Flow	14 m ³ /h
MAX. Head	320 Mtrs.
Outlet Size	1.5 inch
Outline Size	4 inch

Pump Performance Curve



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