



Model	Power	Voltage	Output Current	Dimensions (L*W*H:mm)	Installation Dimensions (a*b dmm)	Base No.
PI9130B-S 0R4G1	0.4	1-phase AC 220V±10% DC200~380V	2.5	185/120/165	174/108/Ø5.3	9S2
PI9130B-S 0R7G1	0.75		4			
PI9130B-S 1R5G1	1.5		7			
PI9130B-S 2R2G1	2.2		10	220/150/182	209/138/Ø5.3	9S3
PI9130B-S 004G1	4		16	285/180/200	272/167/Ø5.5	9S4
PI9230-S 5R5G1	5.5		25	360/220/225	340/150/Ø10	9L1
PI9230-S 7R5G1	7.5		32			
PI9230-S 011G1	11		45	435/275/258	415/165/Ø10	9L2
PI9230-S 015G1	15		60	480/296/262	460/200/Ø10	9L3
PI9230-S 018G1	18		75	660/364/295	640/250/Ø10	9L3
PI9230-S 022G1	22		90			
PI9230-S 030G1	30		110	710/453/295	690/350/Ø10	9L4
PI9230-S 037G1	37		152			
PI9230-S 045G1	45		176	185/120/165	174/108/Ø5.3	9L5
PI9230-S 055G1	55		210			
PI9130B-S 0R4G2	0.4	3-phase AC 220V±10% DC200~380V	2.5	185/120/165	174/108/Ø5.3	9S2
PI9130B-S 0R7G2	0.75		4			
PI9130B-S 1R5G2	1.5		7			
PI9130B-S 2R2G2	2.2		10	220/150/182	209/138/Ø5.3	9S3
PI9130B-S 004G2	4		16	285/180/200	272/167/Ø5.5	9S4
PI9230-S 5R5G2	5.5		25	360/220/225	340/150/Ø10	9L1
PI9230-S 7R5G2	7.5		32			
PI9230-S 011G2	11		45	435/275/258	415/165/Ø10	9L2
PI9230-S 015G2	15		60	480/296/262	460/200/Ø10	9L3
PI9230-S 018G2	18		75	660/364/295	640/250/Ø10	9L3
PI9230-S 022G2	22		90			
PI9230-S 030G2	30		110	710/453/295	690/350/Ø10	9L4
PI9230-S 037G2	37		152			
PI9230-S 045G2	45		176	185/120/165	174/108/Ø5.3	9L5
PI9230-S 055G2	55		210			
PI9130B-S 0R4G3	0.4	3-phase AC 380V±10% DC350~750V	2.5	185/120/165	174/108/Ø5.3	9S2
PI9130B-S R75G3	0.75		2.5			
PI9130B-S 1R5G3	1.5		3.8			
PI9130B-S 2R2G3	2.2		5.1	220/150/182	209/138/Ø5.3	9S2
PI9130B-S 004G3	4		9			
PI9130B-S 5R5G3	5.5		13			
PI9130B-S 7R5G3	7.5		17	285/180/200	272/167/Ø5.5	9S4
PI9230-S 011G3	11		25	360/220/225	340/150/Ø10	9L1
PI9230-S 015G3	15		32			
PI9230-S 018G3	18		37	435/275/258	415/165/Ø10	9L1
PI9230-S 022G3	22		45	480/269/262	460/200/Ø10	9L2
PI9230-S 030G3	30		60			
PI9230-S 037G3	37		75	660/364/295	640/250/Ø10	9L3
PI9230-S 045G3	45		90			
PI9230-S 055G3	55		110	710/453/295	690/350/Ø10	9L4
PI9230-S 075G3	75	150				
PI9230-S 093G3	93	176	910/480/335	890/350/Ø10	9L4	
PI9230-S 110G3	110	210				
PI9230-S 132G3	132	253	185/120/165	174/108/Ø5.3	9L5	
PI9230-S 160G3	160	304				
PI9130B-S 0R4G4	0.4	3-phase AC 480V±10% DC450~850V	2.5	185/120/165	174/108/Ø5.3	9L6
PI9130B-S R75G4	0.75		2.5			
PI9130B-S 1R5G4	1.5		3.7			
PI9130B-S 2R2G4	2.2		5	220/150/182	209/138/Ø5.3	9S2
PI9130B-S 004G4	4		8			
PI9130B-S 5R5G4	5.5		11			
PI9130B-S 7R5G4	7.5		15	285/180/200	272/167/Ø5.5	9S3
PI9230-S 011G4	11		22	360/220/225	340/150/Ø10	9S4
PI9230-S 015G4	15		27			

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Special Solar Inverter for PV Water Pump

PI9000-S series



Brief introduction:

Powtran PI9000-S series inverter special for PV water pump adopts the high accuracy fast MPPT algorithms, tracking the PV array output by the maximum power point, driving the pump motor as much as possible to meet various pumping applications. The inverter special for PV water pump can support AC input besides support PV array DC input. When the PV array can not drive the motor or does not have output, it can also accept the grid AC input or other AC motor to supply the power to meet various emergency needs. PI9000-S series inverter special for PV water pump provides full protection, maximizing the life of motor and pump.

Capacity range:

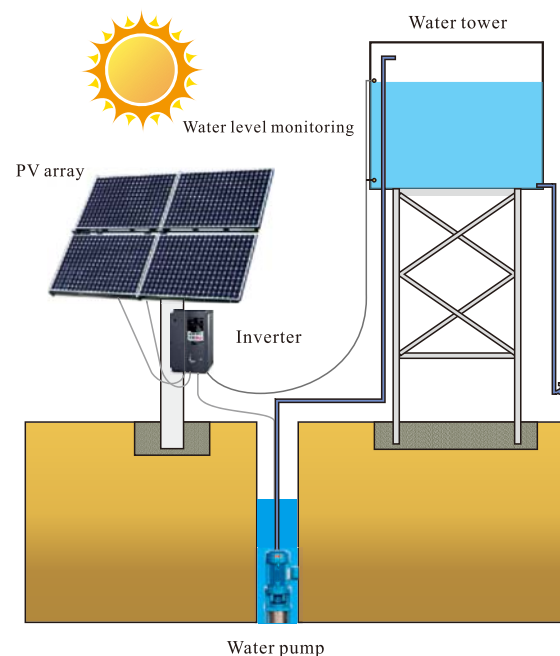
Power range: 0.4~15kW  
 Output frequency: 0~400Hz  
 Input voltage range:  
 1: DC 200V-380V, 1-phase AC220V  
 2: DC 200V-380V, 3-phase AC220V  
 3: DC 350V-750V, 3-phase AC380V  
 4: DC 450V-850V, 3-phase AC480V

Technique Features:

- Built-in high precision PV array maximum power point tracking MPPT algorithms
- Dry running mode monitoring, treatment
- Tank water level control
- Accept DC/AC input
- LED displays the real time situation and the parameter of system
- Based on RS485 real time remote control system
- Fast installation design, no need extra maintenance
- Built-in full protection and diagnostic mechanism.

Application filed:

Agriculture irrigation, grassland animal husbandry, forest irrigation, municiple warter, landscape fountain, fish pond, highway greening, coastal saltworks water supply and drainage, etc.



Nameplate instruction:

Inverter model	MODEL	PI9130B-S 7R5G3
Output Power Spec.	POWER	7.5kW
Input Power Spec.	INPUT	DC 1PH 350~750V 3PH 380V
Output Spec.	OUTPUT	AC 3PH 0~380V 17A 0~400Hz
Bar code	ZPB1A010001	
Production sequence number	DALIAN POWTRAN TECHNOLOGY CO.,LTD.	

PI 91 3 0 B-S 7R5 G 3

Input Voltage Level:  
 1:DC200~380V, 1-phase AC220V  
 2:DC200~380V, 3-phase AC220V  
 3:DC350~750V, 3-phase AC380V  
 3:DC450~850V, 3-phase AC480V

Product function code:  
 G-General Load

Rated Output Power:  
 Example:7R5:7.5kW,004:4kW

Serial Code:  
 91:PI9100series  
 92:PI9200series

With MCU keyboard:  
 0,1,2,3.....

Class code:  
 0:standard configuration  
 1:special 1configuration  
 2:special 2configuration

Type code:  
 A:Single IGBT  
 B:Integrated intelligent power module

Special model code:  
 S:Solar pump

Note: the derivative code representing software version, "3" represents the software version C3.00 and above with MCU keyboard

Recommended solar array configuration:

Inverter Power (kW)	Max.DC input current (A)	Open-circuit voltage degree of solar module									
		20±3V		30±3V		36±3V		42±3V			
		Module Power +/-5Wp	Modules per string x strings	Module Power +/-5Wp	Modules per string x strings	Module Power +/-5Wp	Modules per string x strings	Module Power +/-5Wp	Modules per string x strings	Module Power +/-5Wp	Modules per string x strings
0.75	4.2	30	29*1	-	-	-	-	-	-	-	-
1.5	6.1	60	30*1	--	-	-	-	-	-	-	-
2.2	7.1	90	30*1	-	-	145	18*1	175	15*1	-	-
4	16.5	85	28*2	200	22*1	140	17*2	160	15*2	-	-
5.5	23.9	-	-	-	-	195	17*2	220	15*2	-	-
7.5	30.6	-	-	215	21*2	175	17*3	200	15*3	300	15*2
11	39.2	-	-	200	22*3	195	17*4	220	15*4	-	-
15	49	-	-	205	22*4	200	18*5	240	15*5	300	15*4

\*Recommended DC input power is about 1.2 times of inverter rated power (for 3 phase,380V inverters)

Technical Specifications:

