



# PDS33

## SOLAR PUMP CONTROLLER

Let the “SUNSHINE” be the Porter of Water

# PDS33

## SOLAR PUMP CONTROLLER

2.2kW-110kW



Self-adaptive MPPT algorithm with efficiency up to 99%



Compatible with IEC standard 3 phase asynchronous motor and common PV module



Plug-and-play design, built-in pump protection functions



Built-in smart IGBT module, integrated overvoltage, overload, overheat and dry run protection



Compatible with DC and AC power supply modes, switchable between DC and AC for using



Battery-free design for various application scenarios, easy maintenance

# PDS33 Datasheet

## PDS33 2.2kW - 18.5kW

Model	PDS33-2S2R2B-E	PDS33-4T2R2B-E	PDS33-4T004B-E	PDS33-4T5R5B-E	PDS33-4T7R5B-E	PDS33-4T011B-E	PDS33-4T015B-E	PDS33-4T18R5B-E
INPUT DATA								
Max Input Voltage (Voc) [V]	400V DC	800V DC						
Recommended voltage, at MPPT (Vmp)	275~380V DC	500V DC~750V DC						
Recommended PV array power [kW]	2.7~3.5	2.7~3.5	4.8~6.4	6.6~8.8	9~12	13.2~17.6	18~24	22.2~29.6
AC Input Voltage	AC 220V (±15%)	3 phase AC 380V(±15%)						
Max AC Current (RMS) [A]	23	5.8	10.5	14.6	20.5	26	35	38.5
OUTPUT DATA								
Rated Output Power [kW]	2.2	2.2	4	5.5	7.5	11	15	18.5
Rated Output Voltage	3 phase 220V (±15%)	3 phase AC 380V(±15%)						
Max Output Current (RMS) [A]	9.6	5.1	9	13	17	25	32	37
Output Frequency	0-50Hz/60Hz							
GENERAL DATA								
Dimensions (H*W*D) [mm]	187*88*138		207*100*147	247*130*167		360*182*197		385*219*197
Gross Weight [kg]	1.4		1.7	2.6	2.7	7.05	7.15	10.35
Ambient Temperature Range	-20°C ~ 60°C; > 45°C, Derating as required							
Cooling Method	Fan Cooling							
Ambient Humidity	≤ 95%RH							
PROTECTION FUNCTION								
Surge Protection	Integrated							
Undervoltage Protection	Integrated							
Open Circuit Protection	Integrated							
Overheated Protection	Integrated							
Locked Pump Protection	Integrated							
Short Circuit Protection	Integrated							
Overvoltage Protection	Integrated							
Dry Run Protection	Integrated							
WARRANTY STANDARD								
Standard Warranty [month]	18							
Certificates	IEC/EN 61800-5-1,IEC/EN 61800-2:2004,IEC/EN61800-3:2004,CE							

Note1: Total power of PV array can be 1.2~1.6 times of power of water pump.

# PDS33 Datasheet

## PDS33 22kW - 110kW

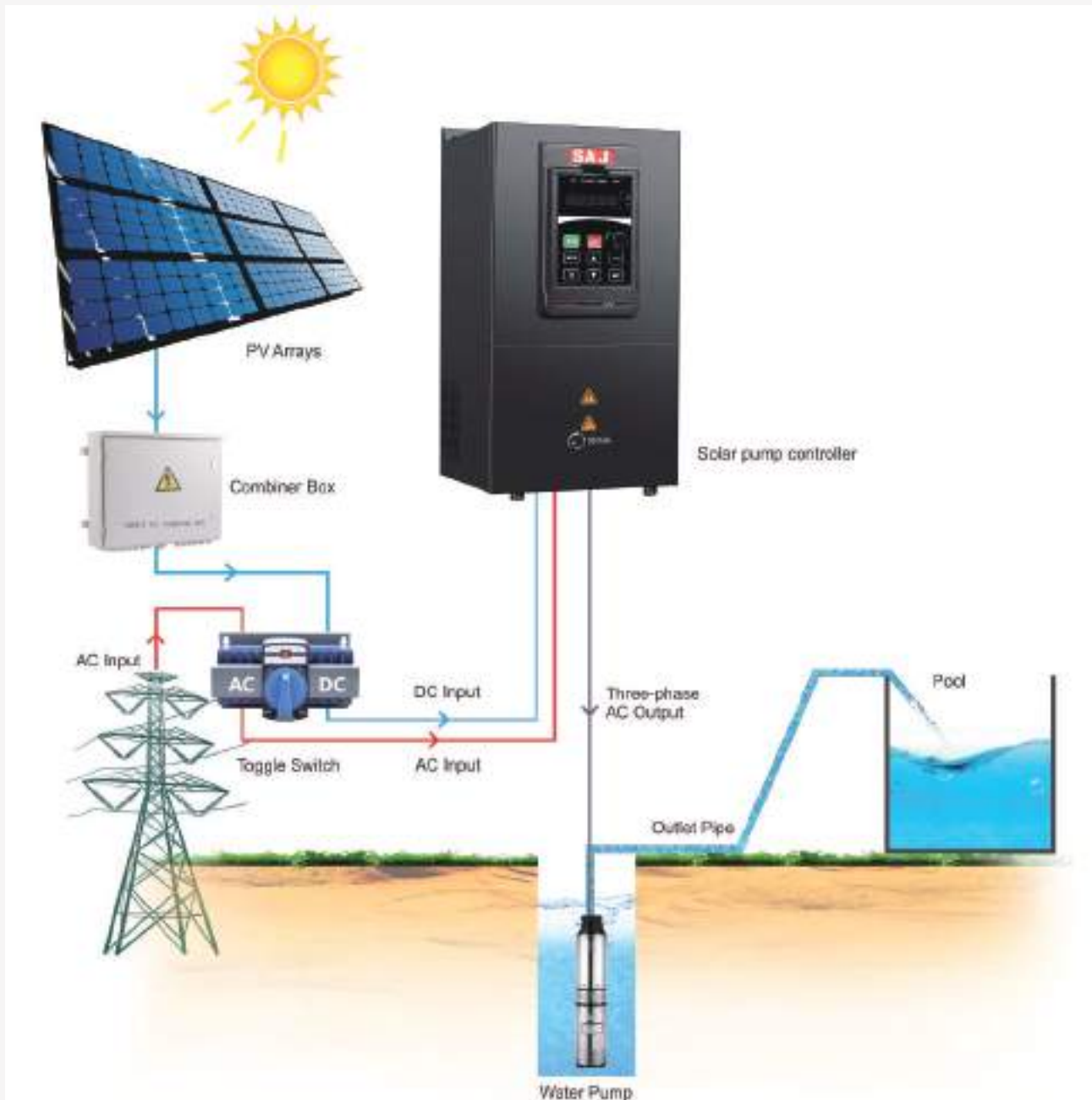
Model	PDS33-4T022B-E	PDS33-4T030B-E	PDS33-4T037B-E	PDS33-4T045B-E	PDS33-4T055B-E	PDS33-4T075B-E	PDS33-4T093B-E	PDS33-4T110B-E
INPUT DATA								
Max Input Voltage (Voc) [V]	800V DC							
Recommended voltage, at MPPT (Vmp)	500V DC~750V DC							
Recommended PV array power [kW]	26.4~35.2	36~48	44~59.2	54~72	66~88	90~120	112~149	132~176
AC Input Voltage	3 phase AC 380V(±15%)							
Max AC Current (RMS) [A]	46.5	62	76	92	113	157	180	214
OUTPUT DATA								
Rated Output Power [kW]	22	30	37	45	55	75	93	110
Rated Output Voltage	3 phase AC 380V(±15%)							
Max Output Current (RMS) [A]	45	60	75	91	112	150	176	210
Output Frequency	0-50Hz/60Hz							
GENERAL DATA								
Dimensions (H*W*D) [mm]	385*219*197	442*256*228		543*310*280		580*358*328		
Gross Weight [kg]	10.45	13.5	13.8	22.3	22.7	38.93	39.45	40.07
Ambient Temperature Range	-20℃ ~ 60℃; > 45℃, Derating as required							
Cooling Method	Fan Cooling							
Ambient Humidity	≤ 95%RH							
PROTECTION FUNCTION								
Surge Protection	Integrated							
Undervoltage Protection	Integrated							
Open Circuit Protection	Integrated							
Overheated Protection	Integrated							
Locked Pump Protection	Integrated							
Short Circuit Protection	Integrated							
Overvoltage Protection	Integrated							
Dry Run Protection	Integrated							
WARRANTY STANDARD								
Standard Warranty [month]	18							
Certificates	IEC/EN 61800-5-1,IEC/EN 61800-2:2004,IEC/EN61800-3:2004,CE							

Note2: Inductor is suggested to be added when the connection distance between solar pump controller and water pump is over 50m.



## PDS33 APPLICATION





## Solar Pumping System



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