



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 ACpower 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										
			GEI	NERAL DATA							
Dimensions (H*W*D) [mm]	187*88*138		207*100*147	247*13	247*130*167		360*182*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									
			PROTEC	TION FUNCTION	N						
Surge Protection	Integrated										
Undervoltage Protection		Integrated									
Open Circult Protection		Integrated									
Overheated Protection	Integrated										
Locked Pump		Integrated									
Protection Short Circult		<u> </u>									
Protection	Integrated										
Overvoltage Protection	Integrated										
Dry Run Protection		Integrated									
			WARRA	NTY STANDAR	RD						
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										
			GEI	NERAL DATA							
Dimensions (H*W*D) [mm]	385*219*197 442*256*228 543*310*280 580*3					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°C ~ 60°C; > 45°C, Derating as required										
Cooling Method	Fan Cooling										
Ambient Humidity	≤ 95%RH										
			PROTEC	TION FUNCTIO	N						
Surge Protection	Integrated										
Undervoltage Protection	Integrated										
Open Circult Protection	Integrated										
Overheated Protection	Integrated										
Locked Pump	Integrated										
Protection Short Circult											
Protection	Integrated										
Overvoltage Protection	Integrated										
Dry Run Protection	Integrated										
			WARRA	NTY STANDAF	RD						
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

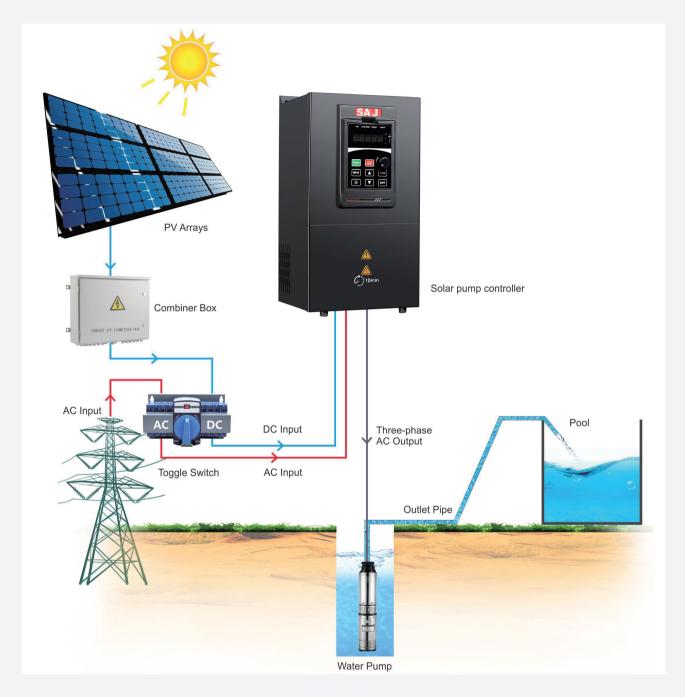












Solar Pumping System



Guangzhou Sanjing Electric Co., Ltd.

- Add.: SAJ Innovation Park, No. 9, Lizhishan Road, Science City,
 Constant William took Zone Constant RR Chiese
- Guangzhou High-tech Zone, Guangdong, P.R.China.

 © Email: sales@saj-electric.com © Fax: 020-66608589
- Website: www.saj-electric.com