

SOLAR WATER PUMP

HYBRID ACDC / PURE DC  



HYBRID ACDC



SOLAR MPPT



SVPWM CONTROL



DIGITAL PFC



IP65



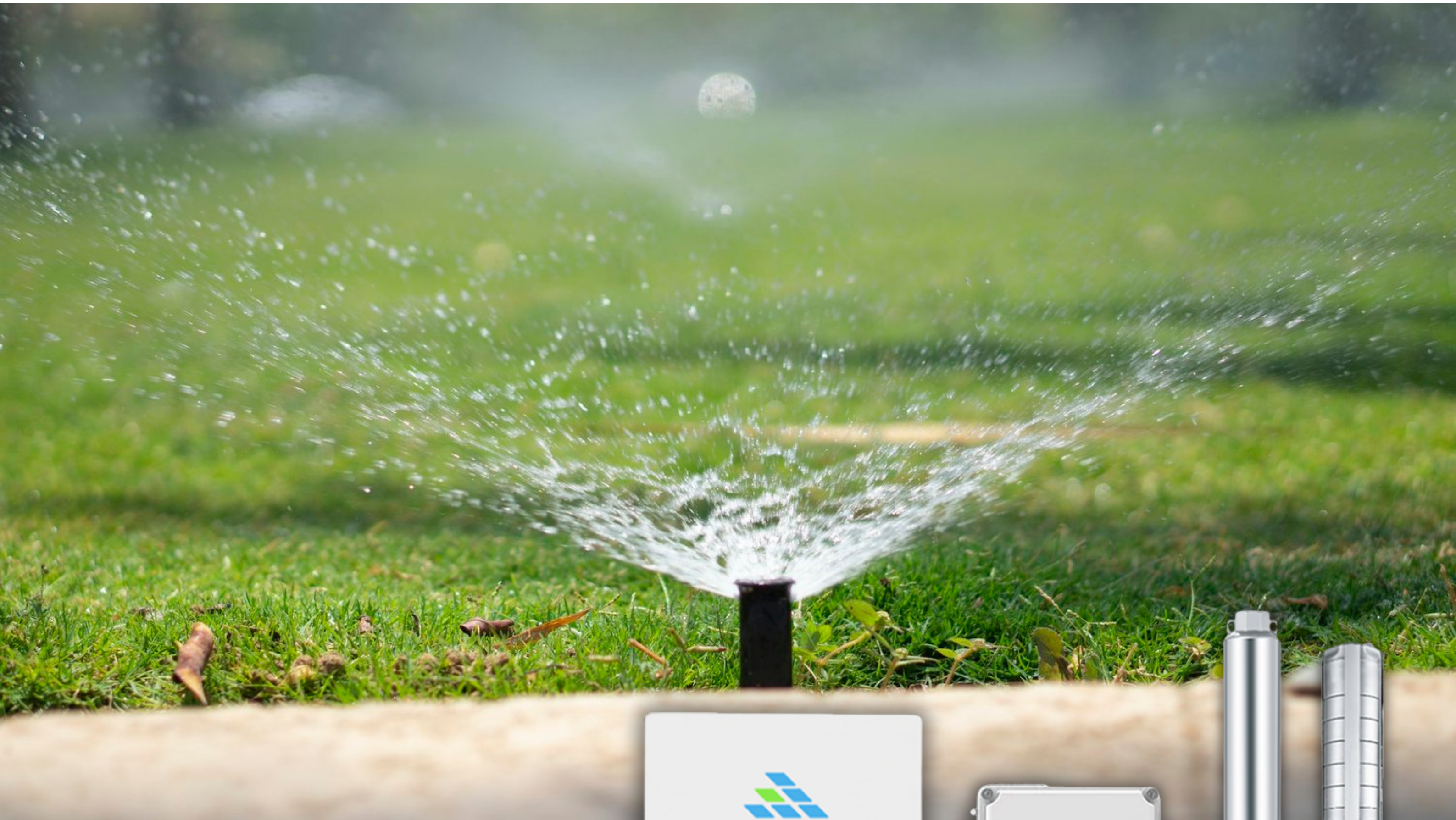
LCD DISPLAY



RS485



SMART POWER METER



Jumeirah Bay X2, Unit 3505, Dubai - United Arab Emirates



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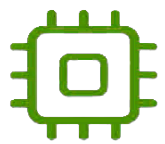
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Technical characteristics



Control Chip
Imported Main Control Chip.



Intelligent protection on Motor drive
Never-Burn Machine



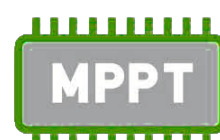
Permanent Magnet Synchronous Motor
Position-Free on Field-Oriented Control



Digital active PFC
Power Factor Up To 99.9%



Solar Power Input
Solar Power Input to 1W Without Wasting



Solar MPPT
MPPT Tracking Technology



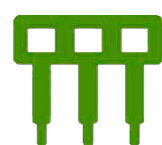
Wide Voltage input
80-410V DC, 136-264V AC



Built-in PV leakage protection circuit
Safe and Reliable



Smart Hybrid ACDC Auto Balance
Without Manual Switching



Wiring Convenience
No need to open cover, External Insertion,
Error Prevention

Smart Hybrid ACDC Function

AC grid power and DC solar power auto balance



Controller Model	ACDC Solar Water Pump Controller Specifications												
	DC Specs				AC Specs			Full Unit Specs					
	Pump Model	DC voltage input range (V)	Maximum DC Input current (A)	Maximum DC Power input (W)	AC voltage input range (V)	Maximum AC input current (A)	Maximum AC Power input (W)	Maximum Power input (W)	Integration Type	IP Rating	Operating TEMP Range (°C)	Net Weight	Gross Weight
DY-D3000ACDC	E0800	80-410	14	3000	136-264	15	3000	3000	Smart Hybrid Auto Balance	IP65	-15 -60	6.2kg	7.73kg
	C1100												
	B1500												
	A2200												

LCD Digital Screen

- Liquid Crystal Display
- Intuitive Interface
- Touch-key Design
- Error Code Memory
- Smart 7/24 Timer
- Rs485 Control
- Real-Time Data

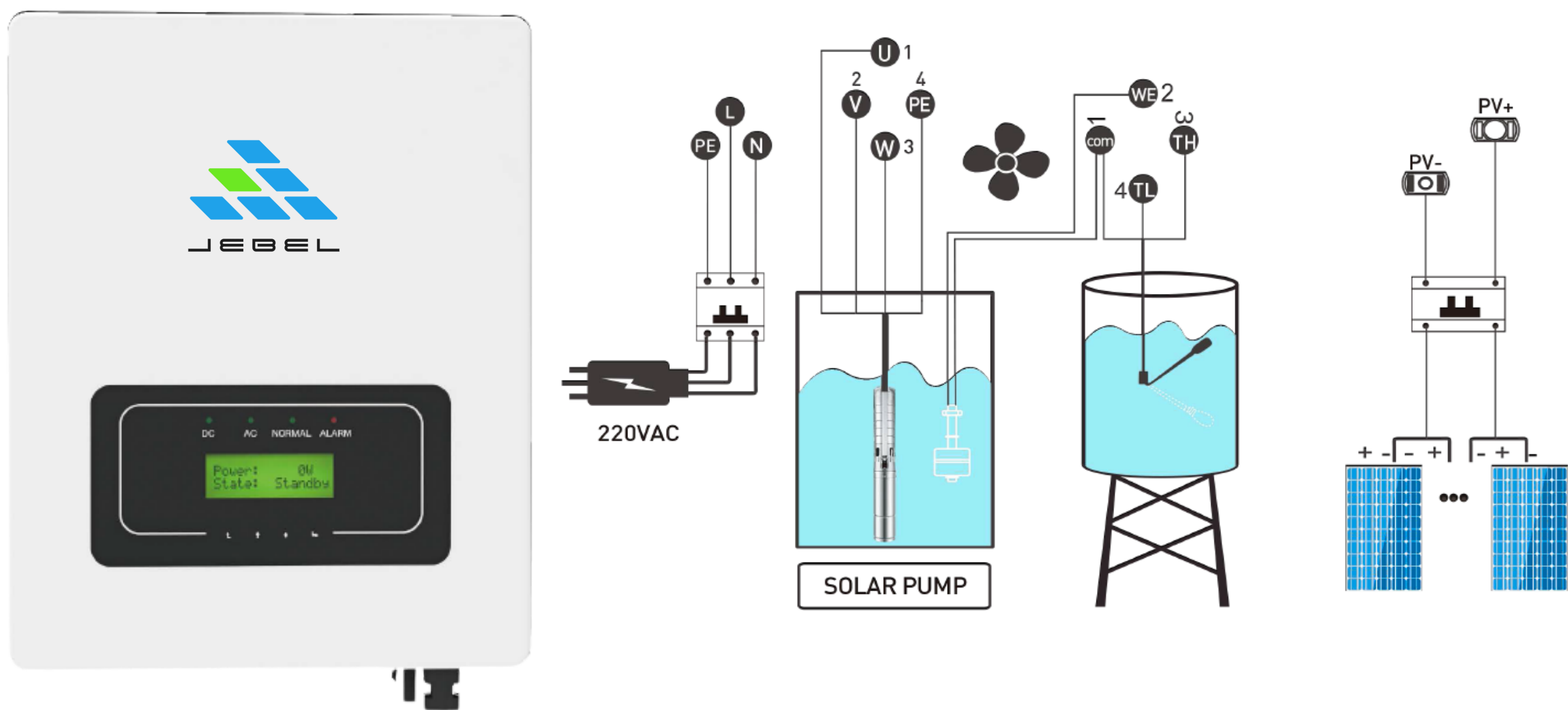


Air-Cool Design

"IP65 waterproofing rating, equipped with air cooling fan, effectively enhances controller hear dissipation performance."



HYBRID ACDC SOLAR WATER PUMP WIRING DIAGRAM

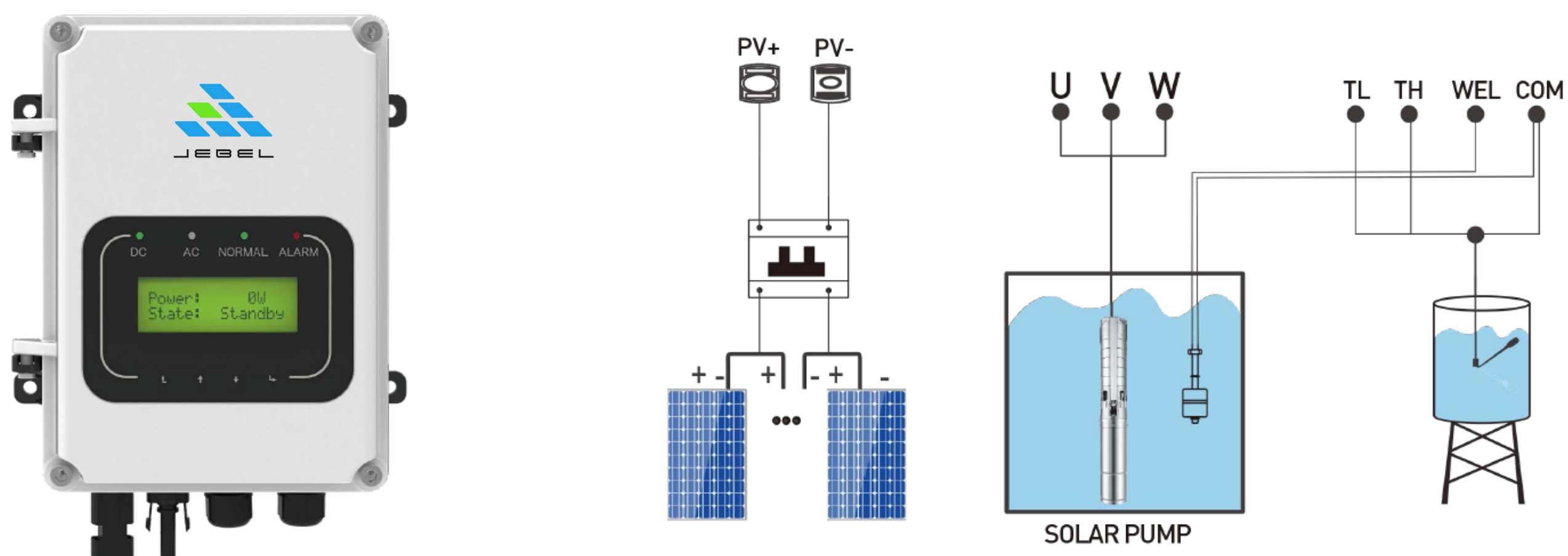


Pure DC Solar Water Pump

DC Solar Water Pump Controller Specifications

Controller Model	DC Specs				Full Unit Specs				
	Pump model	DC voltage input range(V)	Maximum DC input current(A)	Maximum DC Power input(W)	Integration Type	IP Rating	Operating TEMP Range (°C)	Net weight	Gross Weight
DY-D900DC	F0600	30-110	18	900	/	IP65	-15 -60	1.5kg	1.68kg
DY-D1500DC	E0800	60-220		1200					
	C1100			1700					
	B1500			2050					

DC SOLAR CONTROLLER WIRING DIAGRAM OF WATER PUMP CONTROLLER



Technical characteristics

	Solar Pure Solar Pure DC input.		Maximum Input Maximum input current 17A
	Controller Working environment humidity 30% -90%		Automatic Shutdown Automatic shutdown when the water tank is full
	Water Shortage Protection Direct Current Reverse Protection and indicator light reminder.		Timed Detection Regular incoming water detection
	DC Reverse Connection Protection Connection Protection And indicator light reminder		Solar MPPT MPPT tracking technology
	Permanent Magnet Synchronous Motor Position-Free on Field-Oriented Control		Six Protection Functions Overhigh/low voltage, Overcurrent low speed, Open phase, start operation, anti-reverse connection.

PLASTIC IMPELLER PUMP(PC)



PERFORMANCE DATA 4PC Maximum Flow ~ 7m3/h

MODEL	CONTROLLER MODEL		Pump Power	DN	Max outside diameter (mm)	Gross Weight (kg)	Pump packing size (mm)	Q	m3/h	0	2.5	3	4.2
									l/min	0	42	50	70
JBL-WP-DC-PC-3IN-1.25O-4.5F-110	DY-D3000ACDC	DY-D1500DC	800W	1.25"	75	7.2	80x88x900	H(m)		110	70	58	16
JBL-WP-DC-PC-3IN-1.25O-4.5F-165	DY-D3000ACDC	DY-D1500DC	1100W			8.2	80x88x1030			165	102	87	32
JBL-WP-HYB-PC-3IN-1.25O-4.5F-165	DY-D3000ACDC	DY-D1500DC	1100W			8.2	80x88x1030			165	102	87	32
JBL-WP-DC-PC-3IN-1.25O-4.5F-200	DY-D3000ACDC	DY-D1500DC	1500W			9.3	80x88x1170			200	122	103	34
JBL-WP-HYB-PC-3IN-1.25O-4.5F-200	DY-D3000ACDC	DY-D1500DC	1500W			9.3	80x88x1170			200	122	103	34

PERFORMANCE DATA 4PC Maximum Flow ~ 6m3/h

MODEL	CONTROLLER MODEL		Pump Power	DN	Max outside diameter (mm)	Gross Weight (kg)	Pump packing size (mm)	Q	m3/h	0	3.6	4	5.7
									l/min	0	60	67	95
JBL-WP-DC-PC-4IN-1.5O-6F-58	/	DY-D900DC	600W	1.5"	100	8.4	100x108x700	H(m)		58	31	26	5
JBL-WP-DC-PC-4IN-1.5O-6F-75	DY-D3000ACDC	DY-D1500DC	800W			9.2	100x108x730			75	44	38	10
JBL-WP-DC-PC-4IN-1.5O-6F-115	DY-D3000ACDC	DY-D1500DC	1100W			10.3	100x108x820			115	68	60	19
JBL-WP-DC-PC-4IN-1.5O-6F-115	DY-D3000ACDC	DY-D1500DC	1500W			12.1	100x108x920			146	87	75	24
JBL-WP-HYB-PC-4IN-1.5O-6F-146	DY-D3000ACDC	DY-D1500DC	1500W			12.1	100x108x920			146	87	75	24
JBL-WP-DC-PC-4IN-1.5O-6F-240	DY-D3000ACDC	/	2200W			13.6	100x108x1040			240	132	120	38
JBL-WP-HYB-PC-4IN-1.5O-6F-240	DY-D3000ACDC	/	2200W			13.6	100x108x1040			240	132	120	38

PERFORMANCE DATA 4PC Maximum Flow ~ 14m3/h

MODEL	CONTROLLER MODEL		Pump Power	DN	Max outside diameter (mm)	Gross Weight (kg)	Pump packing size (mm)	Q	m3/h	0	7.2	9	13.2
									l/min	0	120	150	220
JBL-WP-DC-PC-4IN-2O-14F-51	DY-D3000ACDC	DY-D1500DC	800W	2"	100	8.9	100x108x710	H(m)		51	26	19	2
JBL-WP-DC-PC-4IN-2O-14F-68	DY-D3000ACDC	DY-D1500DC	1100W			9.2	100x108x760			68	41	31	8
JBL-WP-HYB-PC-4IN-2O-14F-68	DY-D3000ACDC	DY-D1500DC	1100W			9.2	100x108x760			68	41	31	8
JBL-WP-DC-PC-4IN-2O-14F-93	DY-D3000ACDC	DY-D1500DC	1500W			11.7	100x108x890			93	51	35	9
JBL-WP-HYB-PC-4IN-2O-14F-93	DY-D3000ACDC	DY-D1500DC	1500W			11.7	100x108x890			93	51	35	9
JBL-WP-DC-PC-4IN-2O-14F-133	DY-D3000ACDC	/	2200W-			13.1	100x108x980			133	73	54	11
JBL-WP-HYB-PC-4IN-2O-14F-133	DY-D3000ACDC	/	2200W-			13.1	100x108x980			133	73	54	11

PERFORMANCE DATA 4PC Maximum Flow ~ 20m3/h

MODEL	CONTROLLER MODEL		Pump Power	DN	Max outside diameter (mm)	Gross Weight (kg)	Pump packing size (mm)	Q	m3/h	0	12	14.4	19.2
									l/min	0	200	240	320
JBL-WP-DC-PC-4IN-2O-20F-64	DY-D3000ACDC	DY-D1500DC	1500W	2"	100	11.1	100x108x820	H(m)		64	31	24	6
JBL-WP-HYB-PC-4IN-2O-20F-64	DY-D3000ACDC	DY-D1500DC	1500W			11.1	100x108x820			64	31	24	6
JBL-WP-DC-PC-4IN-2O-20F-78	DY-D3000ACDC	/	2200W			12.8	100x108x910			78	44	35	14
JBL-WP-HYB-PC-4IN-2O-20F-78	DY-D3000ACDC	/	2200W			12.8	100x108x910			78	44	35	14



STAINLESS STEEL IMPELLER (SC)



PERFORMANCE DATA 4PC Maximum Flow ~ 7m3/h

MODEL	CONTROLLER MODEL		Pump Power	DN	Max outside diameter (mm)	Gross Weight (kg)	Pump packing size (mm)	Q	m3/h	0	3.6	4.5	6.9
									l/min	0	60	75	115
JBL-WP-DC-SC-4IN-1.5O-7F-102	DY-D3000ACDC	DY-D1500DC	1100W	1.5"	100	10.4	100x108x730	H(m)		102	68	55	12
JBL-WP-HYB-SC-4IN-1.5O-7F-102	DY-D3000ACDC	DY-D1500DC	1100W			10.4	100x108x730			102	68	55	12
JBL-WP-DC-SC-4IN-1.5O-7F-160	DY-D3000ACDC	DY-D1500DC	1500W			12.4	100x108x840			160	90	70	15
JBL-WP-HYB-SC-4IN-1.5O-7F-160	DY-D3000ACDC	DY-D1500DC	1500W							160	90	70	15
JBL-WP-DC-SC-4IN-1.5O-7F-220	DY-D3000ACDC	/	2200W-			14.4	100x108x940			220	128	100	20
JBL-WP-HYB-SC-4IN-1.5O-7F-220	DY-D3000ACDC	/	2200W-			14.4	100x108x940			220	128	100	20

PERFORMANCE DATA 4PC Maximum Flow ~ 11m3/h

MODEL	CONTROLLER MODEL		Pump Power	DN	Max outside diameter (mm)	Gross Weight (kg)	Pump packing size (mm)	Q	m3/h	0	6	7.2	9.6
									l/min	0	100	120	160
JBL-WP-DC-SC-4IN-1.5O-11F-70	DY-D3000ACDC	DY-D1500DC	1100W	1.5"	100	9.8	100x108x690	H(m)		70	41	34	17
JBL-WP-HYB-SC-4IN-1.5O-11F-70	DY-D3000ACDC	DY-D1500DC	1100W			9.8	100x108x690			70	41	34	17
JBL-WP-DC-SC-4IN-1.5O-11F-104	DY-D3000ACDC	DY-D1500DC	1500W			11.3	100x108x750			104	62	51	28
JBL-WP-HYB-SC-4IN-1.5O-11F-104	DY-D3000ACDC	DY-D1500DC	1500W			11.3	100x108x750			104	62	51	28
JBL-WP-HYB-SC-4IN-1.5O-11F-145	DY-D3000ACDC	/	2200W-			12.9	100x108x840			145	81	65	30

PERFORMANCE DATA 4PC Maximum Flow ~ 17m3/h

MODEL	CONTROLLER MODEL		Pump Power	DN	Max outside diameter (mm)	Gross Weight (kg)	Pump packing size (mm)	Q	m3/h	0	9.6	12	16.8
									l/min	0	160	200	280
JBL-WP-DC-SC-4IN-2O-17F-66	DY-D3000ACDC	DY-D1500DC	1100W	2"	100	12.7	100x108x860	H(m)		66	36	29	9
JBL-WP-HYB-SC-4IN-2O-17F-66	DY-D3000ACDC	DY-D1500DC	1100W			12.7	100x108x860			66	36	29	9
JBL-WP-DC-SC-4IN-2O-17F-92	DY-D3000ACDC	/	1500W			14.8	100x108x960			99	50	39	11
JBL-WP-HYB-SC-4IN-2O-17F-92	DY-D3000ACDC	/	1500W			14.8	100x108x960			99	50	39	11

PERFORMANCE DATA 4PC Maximum Flow ~ 27m3/h

MODEL	CONTROLLER MODEL		Pump Power	DN	Max outside diameter (mm)	Gross Weight (kg)	Pump packing size (mm)	Q	m3/h	0	15	18	24
									l/min	0	250	300	400
JBL-WP-DC-SC-4IN-2O-27F-42	DY-D3000ACDC	DY-D1500DC	1500W	2"	100	11.7	100x108x800	H(m)		42	20	16	6
JBL-WP-DC-SC-4IN-2O-27F-42	DY-D3000ACDC	DY-D1500DC	1500W			11.7	100x108x800			42	20	16	6
JBL-WP-DC-SC-4IN-2O-27F-56	DY-D3000ACDC	/	2200W			13.2	100x108x870			56	28	23	10
JBL-WP-HYB-SC-4IN-2O-27F-56	DY-D3000ACDC	/	2200W			13.2	100x108x870			56	28	23	10

PERFORMANCE DATA 4PC Maximum Flow ~ 36m3/h

MODEL	CONTROLLER MODEL		Pump Power	DN	Max outside diameter (mm)	Gross Weight (kg)	Pump packing size (mm)	Q	m3/h	0	23	25	33
									l/min	0	383	417	550
JBL-WP-DC-SC-6IN-3O-36F-52	DY-D3000ACDC	/	2200W	3"	145	16.6	142x154x850	H(m)		52	22	19	10
JBL-WP-HYB-SC-6IN-3O-36F-52	DY-D3000ACDC	/	2200W			16.6	142x154x850			52	22	19	10

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