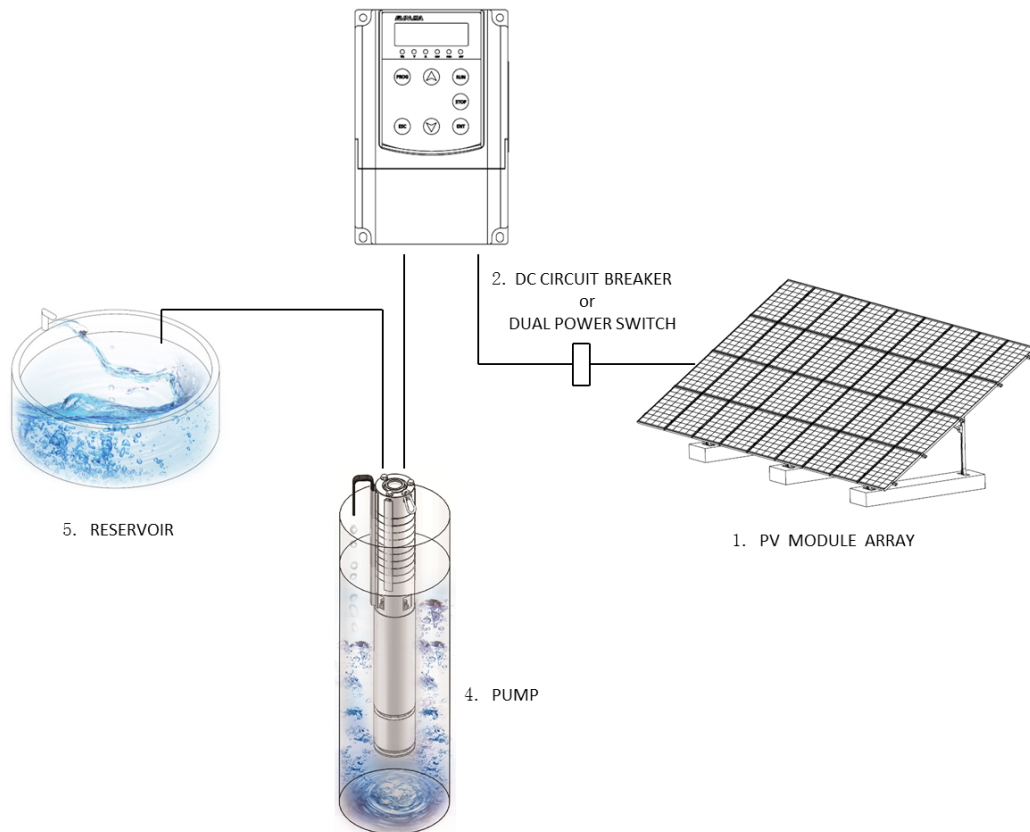


1R5 ePump System



3. PV PUMP CONTROLLER



Solar drive ($U_{max} = 400 \text{ V DC}$)

MPPT for solar

Simple installation

Maintenance-free

High-effective pumping

Accessories

Float level switch to protect pump from dry run.

Optional

Float level switch for tank full automatically.

Warranty

One-year against defects in materials and workmanship.

Construction & Features

Centrifugal mechanism, pump and motor all stainless steel (plastic impeller can be optional).

Three-phase asynchronous motor.

MPPT tracing, Pump speed control and low voltage disconnect.

Float level switch included.

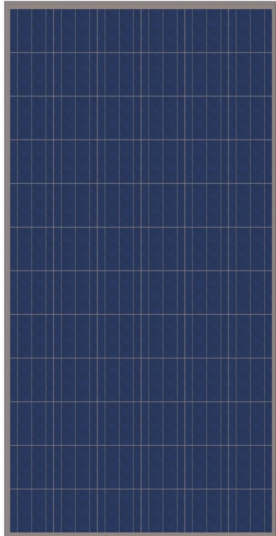
Installation

Pump must be mounted vertically.

Pump motor must be submerged.

It may be placed inside a 5" (12cm) or larger well casing, suspended by a rope.

PV module



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ID 000045083

STC	UEM250P-60	UEM300P-72
Maximum Power (P_{max})	250	300
Maximum Power Voltage (V_{mp})	30.3	36.2
Maximum Power Current (I_{mp})	8.26	8.29
Open-circuit Voltage (V_{oc})	37.7	45.0
Short-circuit Current (I_{sc})	8.80	8.78
Module Dimensions	1640×992×35 mm (64.6×39.1×1.4 inch)	1956×992×40 mm (77.0×39.1×1.6 inch)
Weight	18.2 kgs (40.1 lbs)	25.8 kgs (56.9 lbs)
Maximum System Voltage	1000 V DC	
Maximum Series Fuse Rating	20 A	
Apply to Controller	SMPT-1R5	
PCS	10	8

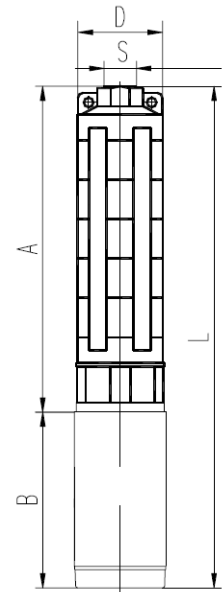
STC: Irradiance 1000W/m², Cell temperature 25°C, AM=1.5.

CAUTION: Read installation guide and user manual before using the product.

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Pump Dimensions

Model	Dimensions					Shipping Dimensions	
	L (mm)	A (mm)	B (mm)	D (mm)	S (mm)	Packaging (mm)	Gross Weight (kg)
4SP2-23	1027	628	399	96	1.25"/1.5"	1200x210x120	17.5
4SP2-28	1167	743	424				19.7
4SP2-33	1272	848	449				21.8
4SP3-15	849	470	379				15.1
4SP3-22	1041	617	424				18.5
4SP3-25	1129	680	449				20.1
4SP5-12	842	443	399				15.4
4SP5-15	939	515	424				17.2
4SP5-17	1012	563	449				18.8



Pump Specifications

Model	P2		Q	DELIVERY	
	KW	HP		m ³ /h	2.0
4SP2-23	1.1	1.5	H (m)	L/min	33
4SP2-28	1.5	2		70	
4SP2-33	1.5	2		85	
4SP2-33					100
Model	P2		Q	DELIVERY	
	KW	HP		m ³ /h	3.0
4SP3-15	1.1	1.5	H (m)	L/min	50
4SP3-22	1.5	2		52	
4SP3-25	1.5	2		76	
4SP3-25					86
Model	P2		Q	DELIVERY	
	KW	HP		m ³ /h	5.0
4SP5-12	1.1	1.5	H (m)	L/min	83
4SP5-15	1.5	2		40	
4SP5-17	1.5	2		51	
4SP5-17					57

1. $n \approx 2850$ r/min.
2. The standard length of cable is 30 m (could be customized).
3. Please select your ePump System according to your water demands and pump head.
4. Choose a larger array to compensate bad weather periods.

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Controller



Model	SMPT-1R5
Input	
Max Input Voltage [V]	DC 400
Input Range [V]	DC 375~400
Output	
Output Power , Rated [W]	1500
Output Voltage , Rated [V]	220 , 3~
Output Max Amps (RMS) [A]	8.0
Output Frequency [Hz]	0~60
Protection	
Surge protection	Integrated
Overvoltage protection	Integrated
Undervoltage protection	Integrated
Locked pump protection	Integrated
Open circuit protection	Integrated
Short circuit protection	Integrated
Overheated protection	Integrated
Dry run protection	Connected float level switch
Communication	
RS-485 isolated	
General Data	
Ambient Temperature Range	-20°C ~ 60°C , > 45°C , Derating as required
Cooling method	Fan Cooling
Ambient Humidity	≤ 95%RH
Dimensions (H*W*D) [mm]	265*230*280
Weight [kg]	0.8
Standard Warranty [month]	18
Certificates	EN 62109-1:2010, EN 61000-6-2:2005, EN 61000-6-4:2007+A1:2011