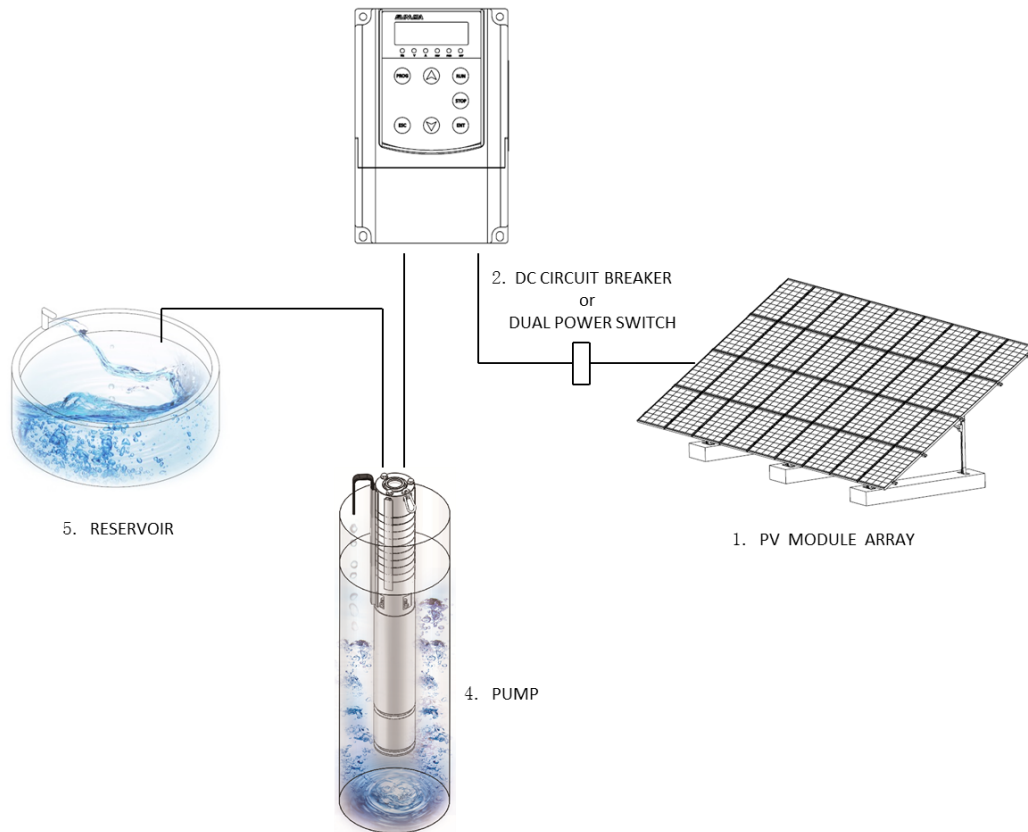


R75 ePump System



3. PV PUMP CONTROLLER



Solar drive ($U_{max} = 250 \text{ V DC}$)

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.

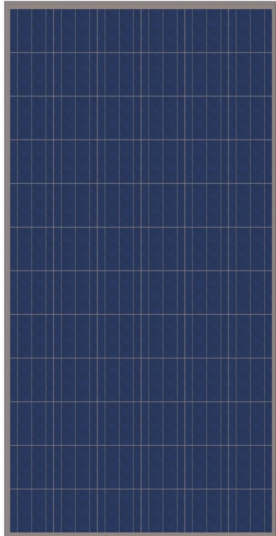
Float level switch included.

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


www.tuv.com
ID 000045083

STC	UEM070P-36	UEM095P-36	UEM290P-72
Maximum Power (P_{max})	70	95	290
Maximum Power Voltage (V_{mp})	17.5	17.7	35.6
Maximum Power Current (I_{mp})	4.00	5.37	8.15
Open-circuit Voltage (V_{oc})	22.1	22.2	44.6
Short-circuit Current (I_{sc})	4.26	5.73	8.66
Module Dimensions	771×665×30 mm (30.4×26.2×1.2 inch)	1007×665×30 mm (39.6×26.2×1.2 inch)	1956×992×40 mm (77.0×39.1×1.6 inch)
Weight	6.2 kgs (13.7 lbs)	8.0 kgs (17.6 lbs)	25.8 kgs (56.9 lbs)
Maximum System Voltage	1000 V DC		
Maximum Series Fuse Rating	20 A		
Apply to Controller	SMPT-R38	SMPT-R55	SMPT-R75
PCS	10	10	5

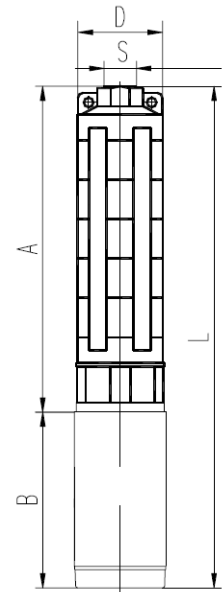
STC: Irradiance 1000W/m², Cell temperature 25°C, AM=1.5.

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

© 2017 Sunman (Hong Kong) Limited. All rights reserved. Specifications included in this datasheet are subject to change without notice.

Pump Dimensions

Model	Dimensions					Shipping Dimensions		
	L (mm)	A (mm)	B (mm)	D (mm)	S (mm)	Packaging (mm)	Gross Weight (kg)	
4SP2-9	570	344	226	96	1.25"	850x210x120	10.7	
4SP2-13	669	428	241				12.3	
4SP2-18	809	533	276				14.0	
4SP3-6	507	281	226				10.1	
4SP3-9	585	344	241				11.4	
4SP3-12	683	407	276				12.7	
4SP5-4	466	240	226				1.25"/1.5"	9.8
4SP5-6	523	282	241					10.9
4SP5-8	600	324	276					12.0



Pump Specifications

Model	P2		Q	DELIVERY	
	KW	HP		m ³ /h	2.0
4SP2-9	0.37	0.5	H (m)	L/min	33
4SP2-13	0.55	0.75		30	40
4SP2-18	0.75	1		55	
Model	P2		Q	DELIVERY	
	KW	HP		m ³ /h	3.0
4SP3-6	0.37	0.5	H (m)	L/min	50
4SP3-9	0.55	0.75		24	32
4SP3-12	0.75	1		44	
Model	P2		Q	DELIVERY	
	KW	HP		m ³ /h	5.0
4SP5-4	0.37	0.5	H (m)	L/min	83
4SP5-6	0.55	0.75		14	21
4SP5-8	0.75	1		28	

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.

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

© 2017 Sunman (Hong Kong) Limited. All rights reserved. Specifications included in this datasheet are subject to change without notice.

Controller



Model	SMPT-R38	SMPT-R55	SMPT-R75
Input			
Max Input Voltage [V]	DC 250		
Input Range [V]	DC 180~250		
Output			
Output Power , Rated [W]	380	550	750
Output Voltage , Rated [V]	110 , 3~		
Output Max Amps (RMS) [A]	4.1	5.9	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		

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

ePump R75_CE_EN_2017A

© 2017 Sunman (Hong Kong) Limited. All rights reserved. Specifications included in this datasheet are subject to change without notice.