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ON **PERFORMANCE**



**Solar Pump
Controller**



EXPLORIMATE
Embedded Design

Transforming Ideas



MSME
MICRO, SMALL & MEDIUM ENTERPRISES
सूक्ष्म, लघु एवं मध्यम उद्यम

सत्यमेव जयते

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ESD(1 Hp, 2 Hp, 3 Hp)

Special Features :

- a) Auto MPPT and MTPA(Maximum Torque per Ampere) based Operation
- b) Automatic timer based operation.
- c) RMS card Interface option.
- d) External selector switch for user-friendly on/off.
- e) Under Voltage, Over Voltage, Over Current, Dry Run, Over Temperature protections.
- f) High glow LED display with Dc Bus Voltage, Current, Power and RPM Indication.
- g) Input Over Current and Over Voltage protection.
- h) Ip65 weather proof enclosure with rigid design and high quality Powder coating to prevent rusting effect.
- i) Water level controller inputs (optional)
- j) Very easy and user friendly operation and installation.
- k) High quality electronics for assured long life operation.
- l) Specialized in house design With latest technologies.
- m) One year limited warranty.

1 Hp Controller

Model : ESD-1

Input Voltage : 150 Vdc Max

No.of Solar Panel : 3 Panel

Power Capacity : 1 Kw Max

Current Capacity : 10A Max

Ingress Protection : IP 65

Mppt Range : Auto Range as Per Voc

Mppt Efficiency : 99.6%

Output : 0 to 110 Vac/ 9 Amp



2 Hp Controller

Model : ESD-2

Input Voltage : 300 Vdc Max

No.of Solar Panel : 6 Panel

Power Capacity : 2 Kw Max

Current Capacity : 10A Max

Ingress Protection : IP 65

Mppt Range : Auto Range as per Voc

Mppt Efficiency : 99 %

Output : 0 to 220 Vac/ 9 Amp



3 Hp Controller

Model : ESD-3

Input Voltage : 420 Vdc Max

No.of Solar Panel : 9 Panel

Power Capacity : 3.3 Kw Max

Current Capacity : 10A Max

Ingress Protection : IP 65

Mppt Range : Auto Range as per Voc

Mppt Efficiency : 99 %

Output : 0 to 330 Vac/ 9 Amp



All Model Suitable for Ac Motor and PMSM Motor Both Hybrid Solar Controller Available in 1 Hp,2 Hp and 3 Hp that works with Electricity Also

Solar Pump for Drinking Water

Model	Array Rating (Wp)	Motor Power	SPV Array (VOC)	Input Voltage (Vmp)	Pump Type	Discharge (LPD)	Discharge Calculated at (m)	Shut off Head (m)
TMD500	500	375W (0.5 HP)	67-96	58-84	TM005H010	20000	10	12
					TM005H020	10000	20	25
					TM005H030	6000	30	45
TMD500	500	375W (0.5 HP)	67-96	58-84	TM005H030	13400	30	45
					TM005H060	6700	60	90
TMD750	750	560W (0.75 HP)	96-126	84-110	TM007H030	16700	30	45
					TM007H060	8400	60	90
					TM007H090	4200	90	120
TMD900	900	750W (1 HP)	126-148	110-129	TM010H030	20000	30	45
					TM010H060	10000	60	90
					TM010H090	5000	90	120

Water output figures are on a clear sunny day with 3 times tracking of SPV panel, under "Average Daily Solar Radiation" condition of 7.15 KWh/sq.m on the surface of PV Array (i.e. coplanar with PV module) 2 Standard Test Condition : AM=1.5, E=1000W/m , Cell Temperature : 25°C

Solar Pump For Irrigation

Model	Array Rating (Wp)	Motor Power	SPV Array (VOC)	Input Voltage (Vmp)	Pump Type	Discharge (LPD)	Discharge Calculated at (m)	Shut off Head (m)
TMV1200	1200	750W (1 HP)	148-222	129-194	TM010H020	60000	20	45
					TM010H030	45600	30	45
					TM010H050	25200	50	70
					TM010H070	16800	70	150
					TM010H100	11400	100	150
TMV1800	1800	1500W (2 HP)	222-326	194-284	TM020H030	68400	30	45
					TM020H050	37800	50	70
					TM020H070	25200	70	150
					TM020H100	17100	100	150
TMV3000	3000	2250W (3 HP)	178-266	155-232	TM030H020	150000	20	45
					TM030H030	114000	30	45
					TM030H050	69000	50	70
					TM030H070	45000	70	150
					TM030H100	28500	100	150
TMV5000	4800	3750W (3 HP)	296-407	258-355	TM050H020	240000	20	45
					TM050H030	168000	30	45
					TM050H050	110400	50	70
					TM050H070	72000	70	150
					TM050H100	50400	100	150
TMAV7500	7500	5625W (7.5 HP)	484-530	390-432	TM075H050	155250	50	70
					TM075H070	101250	70	100
					TM075H100	70875	100	150
TMAV10000	10000	7500W (10 HP)	616-704	504-576	TM100H050	207000	50	70
					TM100H070	135000	70	100
					TM100H100	94500	100	150

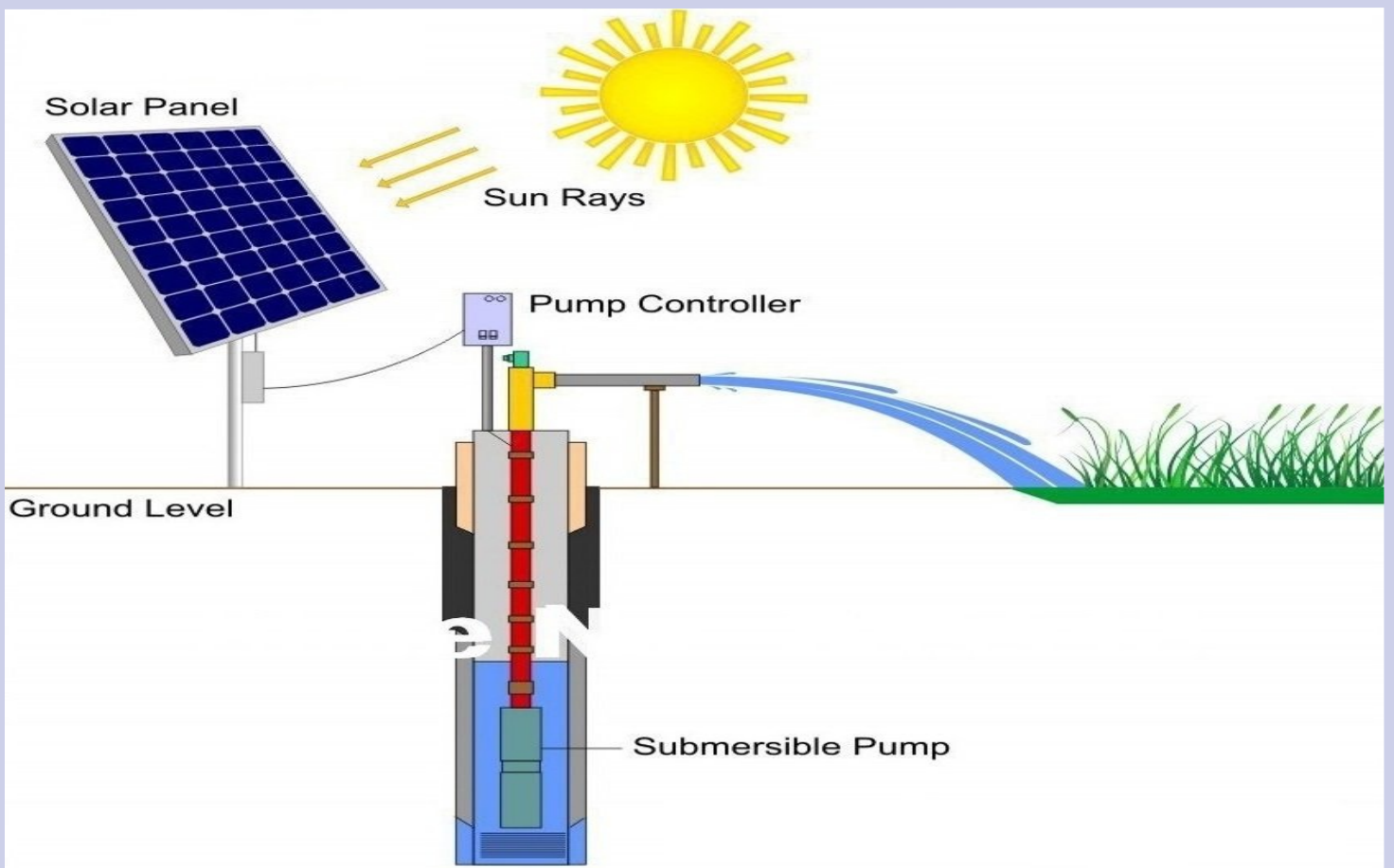
Water output figures are on a clear sunny day with 3 times tracking of SPV panel, under "Average Daily Solar Radiation" condition of 7.15 KWh/sq.m on the surface of PV Array 2 (i.e. coplanar with PV module) Standard Test Condition : AM=1.5, E=1000W/m , Cell Temperature : 25°C

Solar Surface Pumps



Model	Array Rating (Wp)	Motor Power	SPV Array (VOC)	Input Voltage (Vmp)	Pump Type	Discharge (LPD)	Suction Head (m)	Discharge Calculated at (m)	Shut off Head (m)
TMD900	900	750W (1 HP)	126-148	110-129	TM010H010	99000	07	10	12
TMD1800	1800	1500W (2HP)	222-326	194-284	TM020H010	198000	07	10	12
TMD3000	2700	2200W (3 HP)	250-450	180-400	TM030H010	297000	07	10	12
					TM030H020	148500	07	20	25
TMD5000	4800	3750W (5 HP)	400-470	300-620	TM050H010	528000	07	10	12
					TM050H020	264000	07	20	25
					TM050H030	182400	07	30	45

Water output figures are on a clear sunny day with 3 times tracking of SPV panel, under "Average Daily Solar Radiation" condition of 7.15 KWh/sq.m on the surface of PV Array (i.e. coplanar with PV module) 2 Standard Test Condition : AM=1.5, E=1000W/m , Cell Temperature : 25°C



Explorimate Embedded Design

Contact Us

1st Floor,
Ck trading,
Plot No E-14/15/16/7
GIDC, Sector-26,
Gandhinagar,
Gujarat-382028

+91 94276 83970

Tech@explorimatedesign.com

explorimate.design@gmail.com

GSTN:24BLJPP6578D1ZS

<https://www.indiamart.com/explorimate-embedded-design/>