



SOLAR IRRIGATION SYSTEM

Tescom Solar Irrigation System

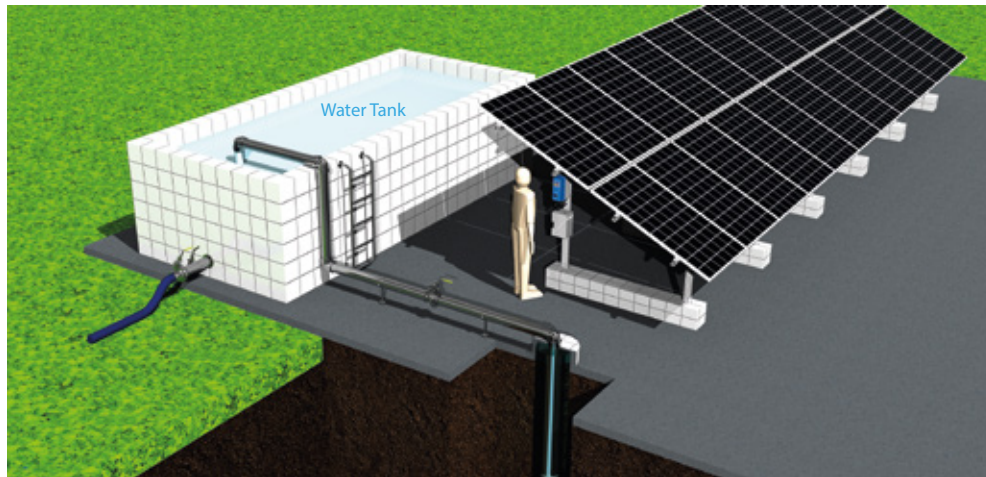
Three phase 5.5kW and higher submersible or surface water pumps can run on energy generated from solar panels directly, where there is no electricity grid or generator.

Solar irrigation system consists of a Tescom SDD55 (Solar Direct Drive) unit with MPPT feature, solar panels and a water tank where necessary.

Solar panels are connected directly to the SDD unit and the highest instantaneous power generated by panels is transmitted to the pump (MPPT function). Motor drive unit changes the pump shaft speed and torque so that system offers the use of water at high flow rates at noon and low flow rates in the evening depending on the instantaneous power delivered by the solar panels. Water can be used instantaneously or it can be stored in the tank and be used for irrigation at night time.

Equipment to be used in this system and coast are associated with the following data and the technical planning of the system;

- Well depth / meter (only for submersible pumps)
- The requested amount of daily water / ton
- Irrigation season (beginning and ending months)
- Installation location (village, town and city name)



MODEL

MODEL	Solar Pump Inverter					PV	AC PUMP	
	Rated Power (KW)	Input Voltage DC (V)	MPPT Voltage (V)	Output Current (AC) A	Frequency Power (Hz)	DC Rated Power (kW)	Pump Voltage (KW)	Output Voltage (VAC)
SDD55 / SDDV2200	2,2	550-850	350-750	10,8	0-50/60	3,2	1,5	3 Phase 380
SDD55 / SDDV2200	2,2	550-850	350-750	10,8	0-50/60	3,2	2,2	3 Phase 380
SDD55 / SDDV4000	4	550-850	350-750	10,8	0-50/60	4,5	3	3 Phase 380
SDD55 / SDDV4000	4	550-850	350-750	10,8	0-50/60	6,4	4	3 Phase 380
SDD55 SDDV55000	5,5	550-850	350-750	10,8	0-50/60	8	5,5	3 Phase 380
SDDV7500	7,5	500-800	500-800	18,5	0-50/60	11,25	7,5	3 Phase 380
SDDV11K	11	500-800	500-800	25	0-50/60	16,5	11	3 Phase 380
SDDV15K	15	500-800	500-800	32	0-50/60	22,5	15	3 Phase 380