



Water Pumping Solutions

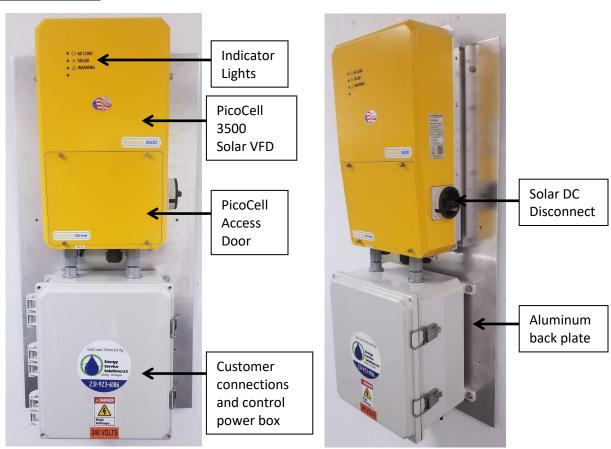
DPC3500

Drainage Pump Controller

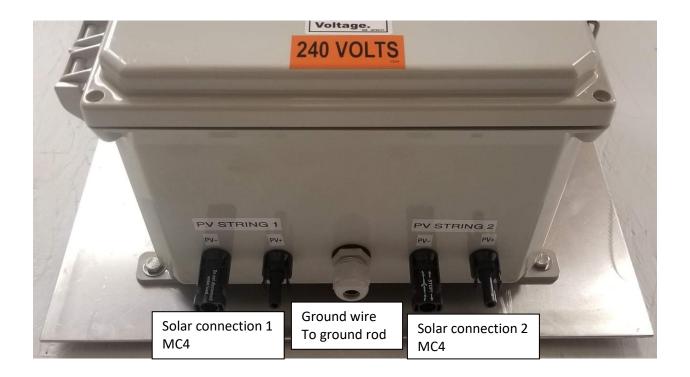
Introduction

The DPC3500 is a 3HP max, solar direct motor controller. The PicoCell 3500 is at the heart of the system and modifies the 300-350Vdc solar PV input power into a 230Vac 3 phase output for the pump motor. The 3500 can operate 230V, 3PH pump motors with maximum 10A S.F. rating. The system acts as a motor soft start and variable speed drive to match the MPPT (max power point) of the PV array.

External Features

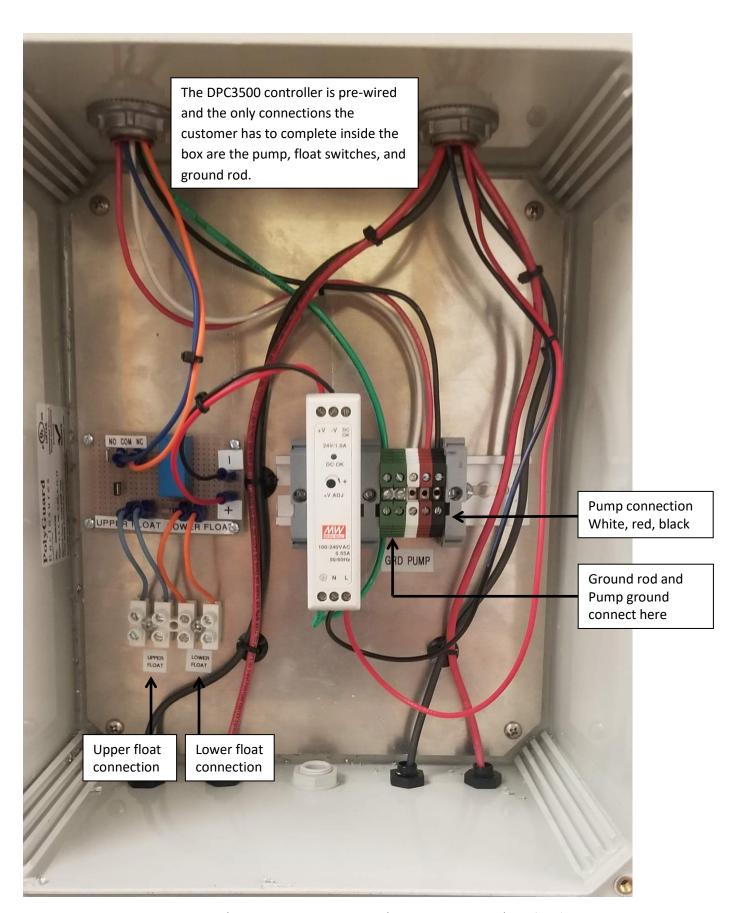


Solar and sump/basin connections





- 1 ¼ conduit from the pump basin. Will contain the pump cable and the two float switch leads.
- *This could enter into the bottom of the enclosure if preferred.



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Mounting

Our kits come with the unistrut channel attached to the backside of the mounting plate. The 4.5" unistrut clamps are also included to easily mount the plate to the solar panel stand.





<u>SunTech Drive – PicoCell 3500 specifications</u>

Input Specification

Dual Solar PV input:

- Maximum Solar Open Circuit Voltage: 400Vdc
- Maximum Solar PV Current (per channel): 9 Amps

Output Specification (when used with PicoCell)

- Maximum Output Current: 13Amps (1-phase motors)
- Maximum Output Current: 10.5Amps (3-phase motors)
- Maximum Power Sustained 3500W

Digital signals:

- One active open digital input
- One active close digital input

Protections:

Overcurrent, Overvoltage, Over temperature, Short Circuit, Overload. AC Load GFCI – 5, 10, or 30mA based on selected setpoint (optional)

ELECTRICAL		MECHANICAL
AC Source operating voltage:	115-240V	Degree of protection: NEMA3R/IP65
AC Source phase and frequency:		Enclosure material: Aluminum
	50/60Hz	Operating temperature: -40°C to 40°C
Solar PV open circuit voltage:	400V	Dimensions: 18"x10"x5"
Maximum PV panel current:	9A	AC Source terminals: AWG #10-16
Max Single phase AC motor current:	13A	Solar terminals: AWG #10-16
Max Three phase AC motor current:	10.5A	Motor terminals: AWG #10-16
		Float Sensor terminals: AWG #14-20