

## PCA & PCC Series Brushless DC Pump Controllers



PCA Series Controller

PCC Series Controller

**SunPumps** PCA and PCC series pump controllers are high quality, micro-processor controlled DC power converters designed as the interface between a sensorless brushless DC powered pump and the power solar array. The main purpose of a PC series controller is for motor commutation, supply maximum power point tracking for the solar modules and provide protection for the controller.

The PC series controllers will boost the current of solar modules in low sunlight conditions while holding the voltage of the solar modules at the maximum power point. This allows a pump to start much earlier in the morning and stay running longer in the evening.

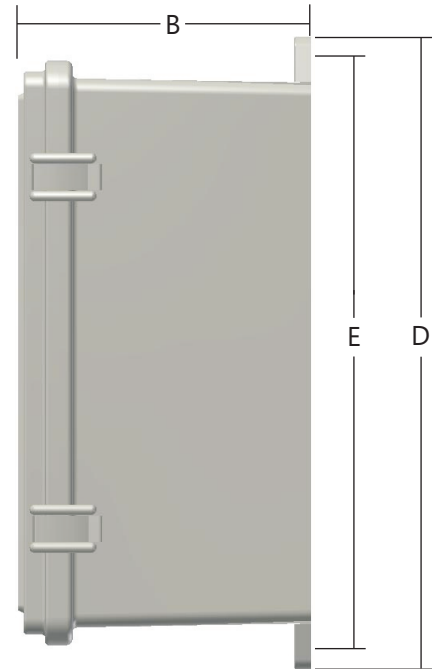
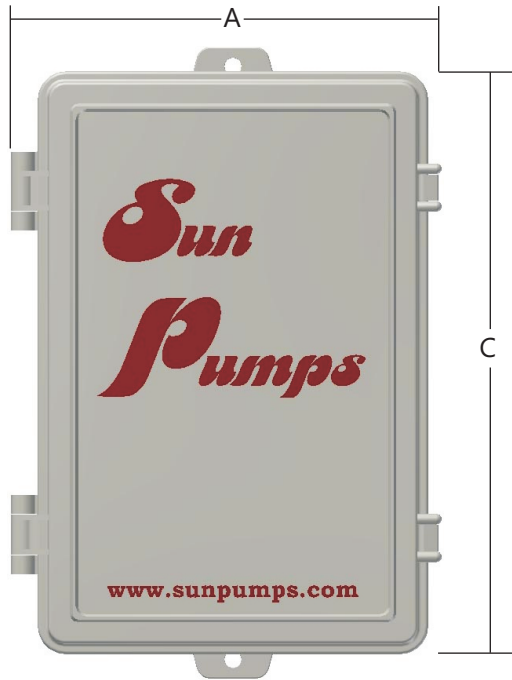
**SunPumps** PC series pump controllers have many unique features designed specifically for water pumping. All PC series controllers include a pump speed control circuit, a remote switch circuit, a sensor-less low water cut-off circuit, an electronic circuit breaker and indicator lights. The PCC series controllers have an LCD screen that displays motor voltage, current, motor speed and power.

### CONTROLLER SPECIFICATIONS

Model Number	<sup>(1)</sup> Min Voltage	Max Voltage	Minimum Power	Maximum Power	Low Water Cut-Off Min	Low Water Cut-Off Max	Nominal Voltage
PCA-60-BLS-M2	30V	100V	Set by LWC	840 W	50 W	300 W	60V
PCA-120-BLS-M2	90V	200V	Set by LWC	1000 W	50 W	500 W	120V
PCC-120-BLS-M2	90V	200V	Set by LWC	1500 W	100 W	585 W	120V
PCC-180-BLS-M2	120V	300V	Set by LWC	2250 W	100 W	1023 W	180V
PCC-240-BLS-M2	220V	380V	Set by LWC	3000 W	100 W	1023 W	240V
Model Number	Min Voltage	Max Voltage	Low Battery Voltage	Maximum Power	Dead Battery Shut Down		Nominal Voltage
PCC-48-BLS-M2	49V	63V	47 V	2000 W	44 V		48 V

<sup>1</sup>Min Voltage is the minimum voltage which the controller must have in order to start the motor. Voltages lower than this will not damage the controller but it will not attempt to start the motor.

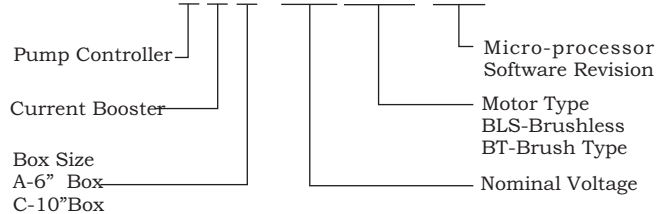
## DIMENSIONS AND WEIGHTS



Dim.	A-Series Box		C-Series Box	
	Inches	Cm	Inches	Cm
A	6.3	16.0	8.0	20.3
B	4.2	10.5	5.5	14.0
C	6.7	17.0	10.8	27.4
D	7.7	19.5	11.7	29.7
E	7.0	17.8	11.0	27.9

	A-Series Box		C-Series Box	
	Lbs	Kg	Lbs	Kg
Weight	4.2	1.9	9.5	4.3
Ship Wt.	4.6	2.1	10.8	4.9

### PCC-120BLS-M2



[www.sunpumps.com](http://www.sunpumps.com)

SOLAR PUMPING PRODUCTS

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*For free system sizing, technical support, or to place an order call:*

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**Fax: (928) 348-9653**

**Made in America**