

## PCA & PCB SERIES PUMP CONTROLLERS



**SunPumps** PCA and PCB series pump controllers are high quality, micro-processor controlled DC power converters designed as the interface between a DC powered pump and the power source. The DC source may be solar modules, batteries or systems using wind generators. The main purpose of a PC series controller is to maximize the total daily water delivery while providing protection for the pump as well as the power source.

The primary function of the PC series controller is to 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 earlier in the morning and stay running longer in the evening.

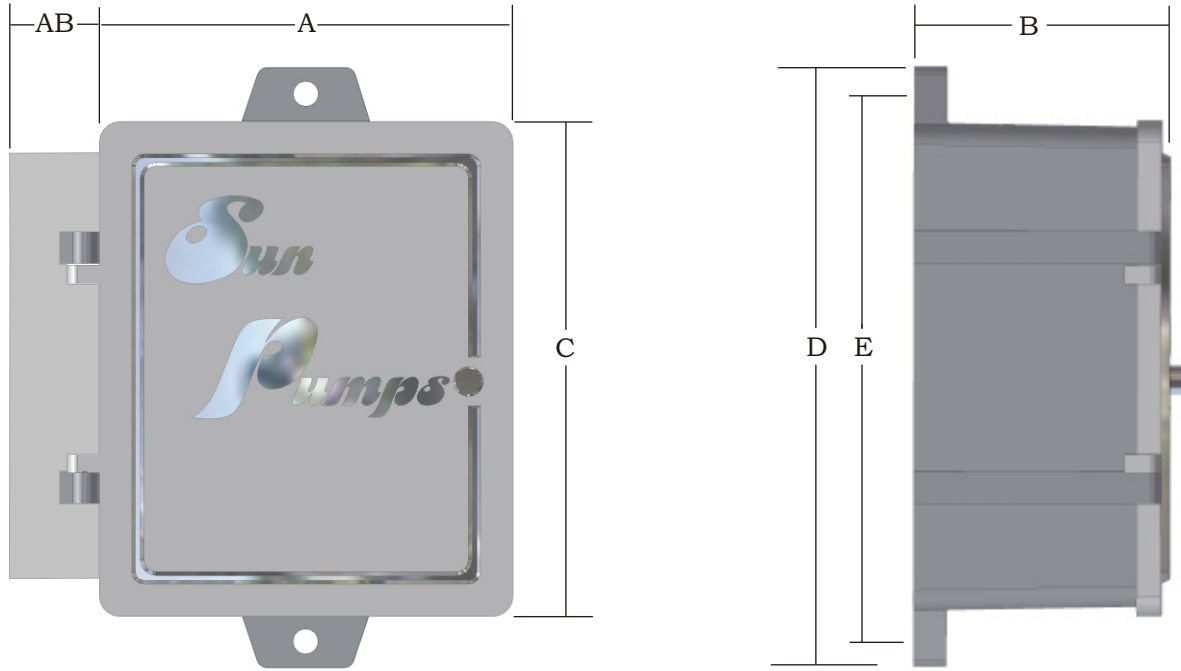
**SunPumps** PC series pump controllers have many unique features designed specifically for water pumping. All PC series controllers include a pump speed control circuit, a remote switch circuit, a sensor-less low water cut-off circuit, an electronic circuit breaker and indicator lights. The PCB series controllers have specific models for Brushless DC as well as Brush-type DC motors.

### CONTROLLER SPECIFICATIONS

Model Number	PCA-30	PCA-60	PCB-90	PCB-120	PCB-180
Number of Solar Modules in Series	1, 2	2,3,4	3,4,5,6	6,7,8,9	9,10,11,12
Nominal voltages (switch selectable)	15,24,30	30,45,60	45,60,75,90	90,105,120, 135	135,150,165,180
Maximum open circuit voltage	45	90	200	250	300
Maximum load current (amps)	8	8	10	10	14
Maximum load power (watts)	250	500	1000	1200	2500

**Independent Water Pumping Systems**

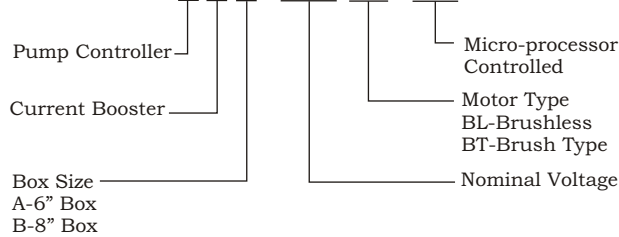
## DIMENSIONS AND WEIGHTS



Dim.	A-Series Box		B-Series Box	
	Inches	Cm	Inches	Cm
A	5.0	2.7	6.5	6.4
B	3.1	7.9	3.9	9.9
C	6.0	15.2	8.3	21
D	7.3	18.4	9.9	25
E	6.75	17.0	9.25	24
AB	NA	NA	1.1	2.8

	A-Series Box		B-Series Box	
	Lbs	Kg	Lbs	Kg
Weight	3.4	1.5	7.2	3.2
Ship Wt.	3.8	1.7	7.6	2.8

### PCB-120BL-M1



Available From:

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