

# SOLARCON SPC-Series

## SOLAR CHARGE CONTROLLER WITH DC LOAD TIMER 10A



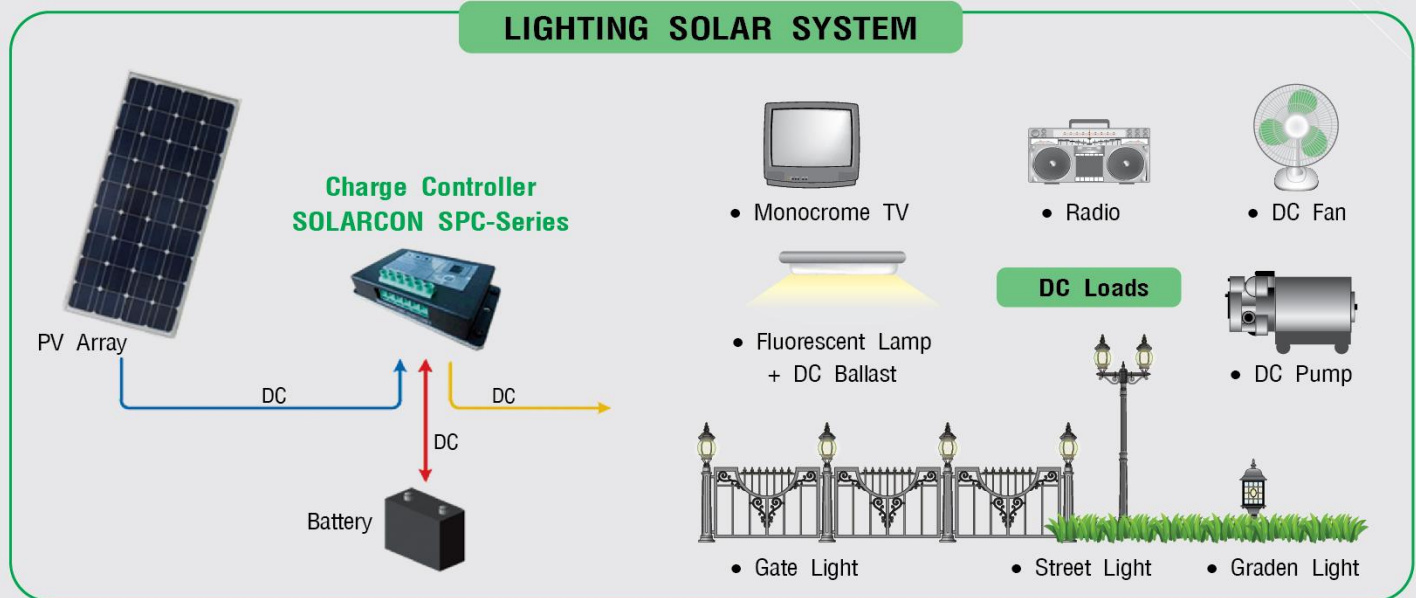
- Reverse polarities protection for PV and battery
- Low loss PV back feed current protection
- Over charge and over discharge protection
- Lightning surge protection
- Low battery shutdown with alarm
- Automatic ON-OFF
- LED indicator
- High reliability
- C-tick compliance for EMC
- ISO 9001 and ISO 14001 certified factory

- Advanced microprocessor control
- Solar charge controller with DC load control
- 3 Step PWM charging to provide quick and safe charging for battery
- 18 modes timer control (ON-OFF DC load) selectable

### TIMER CONTROL TABLE

Digital Display	Mode	Digital Display	Mode
0	Pure Light Control	9	Light + Time Control 9 hour
1	Light + Time Control 1 hour	0.	Light + Time Control 10 hour
2	Light + Time Control 2 hour	1.	Light + Time Control 11 hour
3	Light + Time Control 3 hour	2.	Light + Time Control 12 hour
4	Light + Time Control 4 hour	3.	Light + Time Control 13 hour
5	Light + Time Control 5 hour	4.	Light + Time Control 14 hour
6	Light + Time Control 6 hour	5.	Manual
7	Light + Time Control 7 hour	6.	Debug
8	Light + Time Control 8 hour	7.	Normal Open

### LIGHTING SOLAR SYSTEM



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Model		SPC-1220	SPC-2420	SPC-4820	SPC-4830
<b>PV INPUT</b>	Nominal voltage	12 V	24 V	48 V	
	Maximum voltage	25 V	50 V	88 V	
	Maximum current	20 A	20 A	20 A	30 A
<b>DC OUTPUT</b>	Nominal Battery voltage	12 Vdc	24 Vdc	48 Vdc	
<b>TO BATTERY</b>	Boost charging voltage	14.4-15.3 V (adj.)	28.8-30.6 V (adj.)	56.8-61.2 V (adj.)	
	Float charging voltage	13.8 V ±0.2	27.6 V ±0.4	55.2 V ±0.8	
	Over voltage	16V	32V	64V	
	Low Battery disconnect voltage	10.8 V ±0.2	21.6 V ±0.4	43.2 V ±0.8	
	Maximum charging current	20 A	20 A	20 A	30 A
	Power consumption	12 mA	12 mA	30 mA	
<b>DC LOAD CONTROL</b>	Nominal voltage	12 Vdc	24 Vdc	48 Vdc	
	Maximum current	10 A	10 A	10 A	
	Protection	Over voltage disconnect, Low battery disconnect, Short circuit (Type electronics switch not moving parts and no contact surface)			
<b>PROTECTION</b>		High Battery voltage/ Over charge and over discharge/ PV transient voltage surge PV reverse polarity / Battery reverse polarity			
<b>INDICATOR</b>	LED	PV (Yellow)	Float charging : Fast flash, Over voltage:Slow flash		
		Battery (Green)	Normal :Light , Low-Over voltage: Flash		
		Load (Green)	On:Light, Off:stop		
<b>BATTERY</b>	Type	Lead Acid			
<b>OPERATING</b>	Temperature	0-45 °C			
<b>CONDITION</b>	Relative humidity	0-95% (Non-condensing)			
<b>DIMENSION</b>	W x H x D (approximate in mm.)	124 x 70 x 25		440 x 500 x 170	
<b>WEIGHT</b>	Approximate in gram	255		1500	2000

\*Continuous products development is our commitment. In that manner, the above specifications may be changed without prior notice.

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