

SOLARCON SET

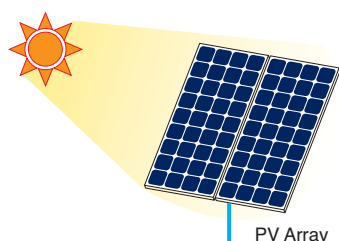
Solar Charge Controller with DC Load Timer 10A



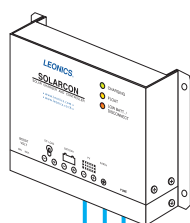
- Advanced microprocessor control
- Solar charge controller with DC load control
- 3 Step charging to provide quick and safe charging for battery
- 7 modes timer control (ON/OFF DC load) selectable

- 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, ISO 14001 and ISO 45001 certified factory

Timer Mode	DC Load Status	
	Sunrise	Sunset
0	OFF →	ON 4hrs. OFF →
1	OFF →	ON 4 hrs. - OFF 5hrs.- ON →
2	OFF →	ON →
3	OFF →	Blink (for Obstruction light)
4	ON 4 hrs - OFF →	
5 (default)	ON →	
6	ON →	OFF →



PV Array

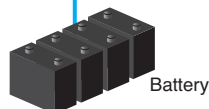


Charge Controller (SOLARCON SET-series)

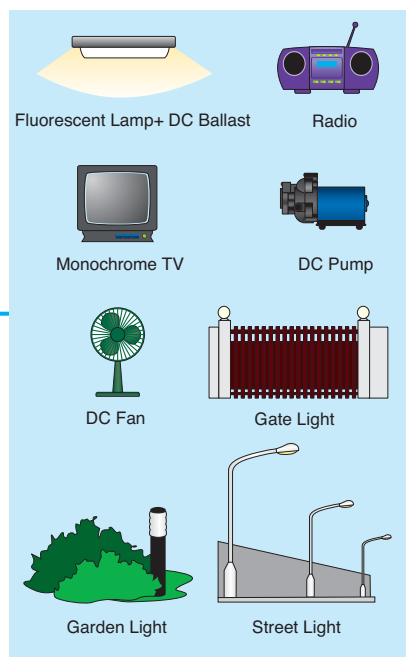
DC

DC

DC



Battery



DC Loads

Where power demand is small and a stand alone power system is needed, the DC-Solar System is a good solution. Particularly suitable for small households, religious retreats, security outposts, small schools and remote clinics the DC-Solar System can provide reliable power for DC appliances such as lights, radio, TV, fans and pumps.

Where the load and its application needs timer function, the SOLARCON SET-series also provide 7 modes of timer operation for control ON/OFF DC load such as street light, garden light, gate light, etc.

SOLARCON SET-series Solar Charge Controller with DC Load Timer 10 A

SPECIFICATIONS

MODEL			SET-1220	SET-1230	SET-2420	SET-2430	SET-4820	SET-4830	
INPUT	Nominal voltage		12 V		24 V		48 V		
	Maximum voltage		22 V		44 V		100 V		
	Maximum current		22 A	30 A	22 A	30 A	20 A	30 A	
DC OUTPUT TO BATTERY	Nominal battery voltage		12 Vdc		24 Vdc		48 Vdc		
	Boost charging voltage (VRLA*/LA)		14.2 Vdc ± 0.2 / 15.0 Vdc ± 0.2		28.4 Vdc ± 0.4 / 30.0 Vdc ± 0.4		56.8 Vdc ± 0.8 / 60.0 Vdc ± 0.8		
	Float charging voltage		13.8 Vdc ± 0.2		27.6 Vdc ± 0.4		55.2 Vdc ± 0.8		
	Low battery disconnect voltage		10.8 Vdc ± 0.2		21.6 Vdc ± 0.4		43.2 Vdc ± 0.8		
	Maximum charging current		22 A	30 A	22 A	30 A	20 A	30 A	
	Power consumption		20 mA		20 mA		30 mA		
DC LOAD CONTROL	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)						
BATTERY	Type		Sealed lead acid (VRLA)						
PROTECTION			High battery voltage, Over charge and over discharge, PV transient vottage surge, PV reverse polarity, Battery reverse polarity						
INDICATOR	LED	Green	Charging						
		Yellow	Float charging						
		Red	Low battery / Low voltage disconnect						
OPERATING CONDITION	Temperature		0 - 45°C						
	Relative humidity		0 - 95 % (non-condensing)						
DIMENSION	W x H x D (mm.)		190 x 140 x 68						
WEIGHT	Approximate in gram		1,500						

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

* The factory default setting is for sealed lead acid (VRLA) battery.

Authorized Distributor

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