LEONICS_®



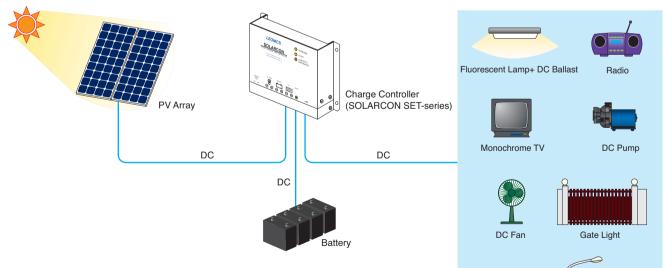
- Advanced microprocessor control
- Solar charge controller with DC load control
- 3 Step charging to provide quick and safe charging for battery
- 7 modes timer control (ON/OFF DC load) selectable

SOLARCON SET

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

Timer	DC Load Status						
Mode	Sunrise		Sunset				
0	OFF		ON 4hrs. OFF ────→				
1	OFF	Delay	ON 4 hrs OFF 5hrs ON →				
2	OFF	10 min.	ON				
3	OFF		Blink (for Obstruction light)				
4	ON 4 hrs - OFF						
5 (default)	ON						
6	ON OFF						



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 SETseries also provide 7 modes of timer operation for control ON/OFF DC load such as street light, garden light, gate light, etc.

DC Loads

Street Light

Garden Light

DC SOLAR SYSTEM

LEONICS_®



SOLARCON SET-series SOLAR CHARGE CONTROLLER WITH DC LOAD TIMER 10A

SPECIFICATIONS

MODEL		SET-1220	SET-1230	SET-2420	SET-2430	SET-4820	SET-4830		
PV INPUT	Nominal voltage		12 V		24 V		48 V		
	Maximum voltage		22 V		44 V		88 V		
	Maxir	mum current	22 A	30 A	22 A	30 A	20 A	30 A	
DC OUTPUT	Nomi	nal battery voltage	12 \	12 Vdc 24 Vdc		Vdc	48 Vdc		
TO BATTERY	Boost charging voltage		14.2 - 15.3 V (adj.)		28.4 - 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		
	Low battery disconnect voltage		10.8 V ± 0.2		21.6 V ± 0.4		43.2 V ± 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	Nominal voltage		12 \	/dc	24 Vdc		48 Vdc		
CONTROL	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						
PROTECTION		High battery voltage / Over charge and over discharge / PV transient voltage surge							
		PV reverse polarity / Battery reverse polarity							
INDICATOR	LED	(green)	Charging						
		(yellow)	Float charging						
		(red)	Low battery / Low voltage disconnect						
BATTERY	Туре		Lead Acid						
OPERATING	Temperature		0 - 45°C						
CONDITION	Relative humidity		0 - 95 % (non-condensing)						
DIMENSION	ON WxHxD		190 x 140 x 68						
	(appr	oximate in mm.)							
WEIGHT	Approximate in gram 1,500								

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

Authorized Distributor:

LEO ELECTRONICS CO., LTD.

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