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SLR-CONTROLLER-006

12/24VDC, 15 Amp Solar Panel Charging Controller

DWG BY:
MM
03-15-12

R&D:
BJ
03-15-12

QA:
RD
03-16-12

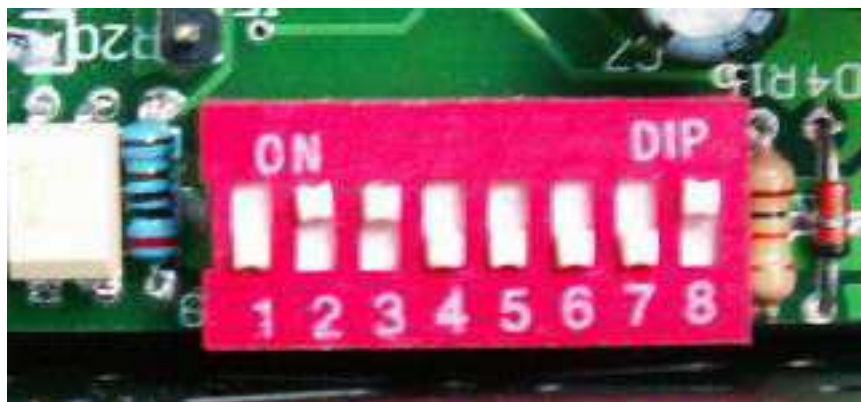
REVISION LTR: -

03-15-12

Charge controller with timer



1. Timer control.
2. 12/24V system auto detect.
3. Temperature compensation.
4. PWM charging.
5. Low overhead power consumption.
6. Reversed battery connection protection.
7. Over charge protection
8. Over-discharge protection
9. Ambient light sensor with adjustable set point.
(Utilized solar panel as light sensor)
10. Adjustable light-on timer.



Note, to adjust the timer, please see below chart of the dip switch locations.

Timer settings chart

Timer hours	No.5	NO.6	No.7	NO.8	REMARK
0	OFF	OFF	OFF	OFF	TIMER OFF
1	ON	OFF	OFF	OFF	
2	OFF	ON	OFF	OFF	
3	ON	ON	OFF	OFF	
4	OFF	OFF	ON	OFF	
5	ON	OFF	ON	OFF	
6	OFF	ON	ON	OFF	
7	ON	ON	ON	OFF	
8	OFF	OFF	OFF	ON	
9	ON	OFF	OFF	ON	
10	OFF	ON	OFF	ON	Default settings
11	ON	ON	OFF	ON	
12	OFF	OFF	ON	ON	
13	ON	OFF	ON	ON	
14	OFF	ON	ON	ON	
15	ON	ON	ON	ON	

The set up will be in effect after restart (disconnect and reconnect battery).

Note, Please KEEP THE NO. 1 SWITCH AT OFF location

Power to lights may be programmed to turn ON at different ambient light conditions. Programming is accomplished by setting the DIP switch, positions 2, 3, and 4. Refer to the chart below. If it is desired to turn ON the lamp/load only during dark conditions, set the DIP switch to CDS Light Sensor Degree 1, 2, or 3. If it is desired to turn ON the lamp/load under more illuminated conditions, set the DIP switch to CDS-Light-Sensor Degree 4, 5, 6, or 7.

To disable the ambient light sensor — thus providing power to the lamp/loads all the time — set the DIP switch for the CDS Light Sensor Degree to “0”.

To enable the CDS-Light-Sensor Degree selections, it is necessary to remove the battery connections for 10 seconds and reconnect. The Solar Panel is utilized as an ambient light sensor.

Light sensor chart

CDS (Light sensor degree)	2	3	4	Light sensor degree	
0	OFF	OFF	OFF	NO LIGHT SENSOR	
1	ON	OFF	OFF		
2	OFF	ON	OFF		
3	ON	ON	OFF		
4	OFF	OFF	ON		Default settings CDS=3
5	ON	OFF	ON		
6	OFF	ON	ON		
7	ON	ON	ON		

Technical Parameters

A) Nominal Voltage	12 / 24V DC
B) Maximum Charge Current	15A
C) Maximum Load Current	15A
D) Over-Discharge Protection	10.8V / 21.6V
E) Reset	12 / 24V
F) Overcharge Protection	14.5 / 29V
G) Restart of Charging	13.7V
H) Self-consumption	2 / 4mA
I) Operating Temperature	-4°F to 176°F [-20°C to +80°C]
J) Waterproof	IP22
K) Size	4.33×2.32×1.3in. [110×59×33mm]
L) Weight	3.9oz [110g]

