

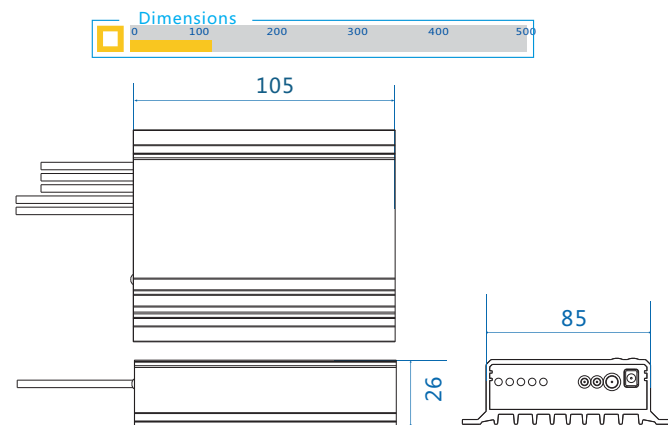
Smart-DCN 10A60W solar controller

Constant current , Night-Light , Dimming, IP68, Infrared

Smart-DCN series intelligent solar controller, is programmable and especially for DC solar street light system. It has constant current driver function, which can make the cost of the whole system much lower.

It comes with a number of outstanding features, such as:

- Can output constant current (output current can be set). Min: 0.1A
- Three time periods, Dimming function: 0~100% of rated power adjustable
- Decrease working power when in low battery level, over temperature, over voltage and over power
- Many modes for solar street light system
- Remote Unit to configure, with LCD display
- 12/24V automatic recognition
- IP68, Strong and durable aluminum case
- External temperature sensor, automatic temperature compensation
- Four stages PWM charge way: fast, boost, equal, float
- Full automatic electronic protect function



Technical Datasheet

	SMR1006-DCN
Max solar current	10A
System voltage	12V/24V automatic recognition
Output power (W)	12V : 10~30W , 24V : 25~60W
Output current (A)	12V: 0.3~1.7A , 24V : 0.6~2.0A
Output voltage (V)	12V : 16~40V , 24V : 32~55V
Constant current Precision	2%
Representative efficiency	>96%
Dimming	0~100%
Fast voltage	14.0V/28.0V (25?)
Boost voltage	14.5V/29.0V (25?)
Equalization voltage	14.8V/29.6V (25?) (Liquid)
Float voltage	13.7V/27.4V (25?)
Load disconnect voltage	10.8~11.8V/21.6~23.6V ; SOC1~5(Programmable)
Load reconnect voltage	12.5V/25.0V
Over voltage protection	15.5V/ 31.0V
Lighting hours	Time1 : 0~14Hours , Time2 : 0~14Hours , Time3 : 0~15Hours (Programmable)
Day/Night threshold	3.0~8.0V/6.0~16.0V(Programmable)
Battery type	Liquid , Gel
Temperature Compensation	-4.17 mV/K per cell(Boost and Equal charge) ; -3.33 mV/K per cell(Float)
Max solar voltage	55V
Max battery voltage	40V
Dimensions /Weight	105x85x26mm / 345g
Wire size	10A: 2.5mm ²
Typical power consumption	10mA
Ambient temp.	-40°C ~ +60 ?
Case protection	IP68
Max altitude	4000m

