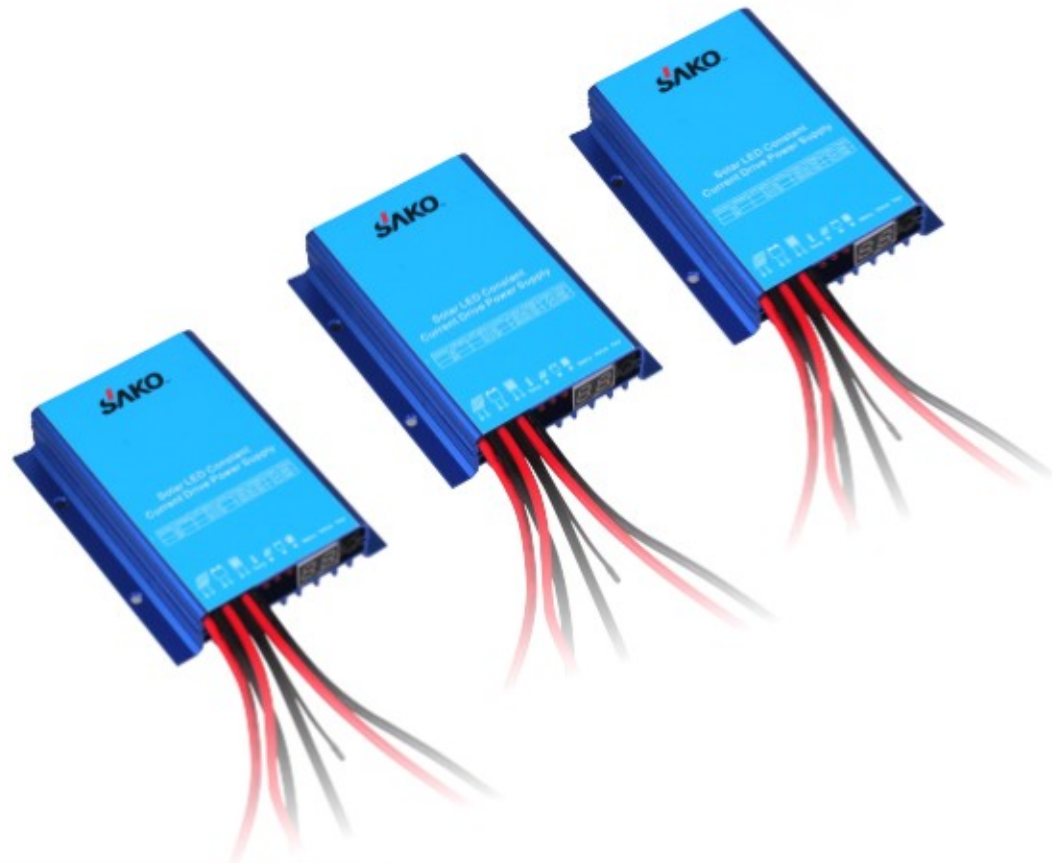


# Solar LED Constant Current Drive Power Supply System

## > MAIN FUNCTION

- Industrial-grade Micro Processor Control
- LED constant current source is internally installed and its efficiency can more than 96%
- With LED display module which can display system status and parameters
- Timer control and light control, double timer setting, with intelligent four phases PWM digital dimming, the capacity control is more accurate
- Battery type selectable
- Outstanding ripple current control and degree of linearity control utmost lessening the LED light decline and increase the LED life span
- Parameters of charge and discharge are adjustable
- The controller could figure out everyday's solar energy
- Smart power model, automatically adjust the load power according to the battery energy for maximum service life
- With the charging overcurrent protection function, the controller will automatic reduce the charge current
- With the Solar reverse polarity protection, LED light short circuit, open circuit protection
- With the Overtemperature protection
- With DC power supply function, can be connected LED Street light
- IP68 waterproof level and aluminum outer shell
- Wall hanging case
- Application for off-grid solar power system



## > TECHNICAL PARAMETER

SPECIFICATION	MODEL	SC-L12/2405	SC-L12/2410	SC-L12/2420
<b>P.V. Input Features</b>				
Input P.V. Range(Vdc)		15~60VDC		
Solar Charge Current(A)		45A Max.	10A Max.	20A Max.
<b>Solar Charging Features</b>				
Normal Battery Voltage(Vdc)		12V/24VDC(self-adaption)		
Fast Charge Voltage(Vdc)		14.2±0.2VDC/28.4±0.2VDC		
Folat Charge Voltage(Vdc)		13.8±0.2VDC/27.6±0.2VDC		
Overcharge Alarm Voltage(Vdc)		15.0±0.2VDC/30.0±0.2VDC		
Overcharge Protection Voltage(Vdc)		15.0±0.2VDC/30.0±0.2VDC		
Overcharge Recovery Voltage(Vdc)		13.6±0.2VDC/27.2±0.2VDC		
<b>DC Output Features</b>				
DC Output Current(A)		30W LED light(12V System) / 70W LED light(24V System)		
Overdischarge Protection Voltage(Vdc)		11.0±0.2VDC/22.0±0.2VDC		
Overdischarge Recovery Voltage(Vdc)		13.2±0.2VDC(adjustable)		
<b>PROTECTION</b>				
Protection		Overcharge protection, Overdischarge protection, Solar reverse polarity protection, Overtemperature protection		
<b>Display Features</b>				
Display method		LED+LCD		
Display substance		PV status, Battery status, DC Output status, fault status		
<b>AMBIENT</b>				
Noise(dB)		< 55dB (1 meter)		
working Temperature		-20℃~50℃		
Humidity		0~95% ( no condensation)		
Sea Level(m)		≤1500		
<b>DIMENSION</b>				
L×W×H (products/package size)mm		82*100*20mm/90*108*25mm		
Weight(NW Kg)/(GW Kg)		0.2KG/0.3KG		
System Voltage		LED lights in series		
12V-30W		5≤n≤20		
24V-70W		10≤n≤20		