Sky Dream Serial

SD SERIES

This series product base on in series PWM mode, with full digital technology and LCD display, auto run mode with large application range, such as off-grid solar home system, traffic indicator, solar street lights, solar garden lights and so on.

Models：

Type	Current	Volts
SD2420C	10A、20A、30A	12/24V auto work
SD2440S	30A 40A	12/24V auto work
SD2440S	30A 40A	48V auto work

Features

◆ 32bits CPU, sampling precision is higher, operation speed is faster

◆12V/24VDC Automatic Identification System Voltage

◆ 3 stages PWM charging: Bulk, Boost, Float

◆ Sealed, Gel, Flooded battery selection procedure

◆ Humanized LCD displaying, dynamic display operation data and working state.

◆Built-in operation log, account system working state

◆ Multi load control mode: Normal mode, Sensor mode, Timer mode

◆Temperature Compensation Function and Controller Over Temperature Protection Function

Electronic protections:

◆Overload Protection

◆Lightning Protection

◆Electronic protections

◆Short Circuit Protection

◆Battery Over Voltage Protection

◆Reverse Connection of battery Protection

◆Short Circuit and Reverse Connected Protection

Technical Data:

Mode	LD2410NC	LD2420NC	LD2430NC
System Voltage	12V/24V		
PV Max Input Voltage	55V		
Self-consumption	≤12mA		
Max Charge Current	10A	20A	30A
Max Discharge Current	10A	20A	20A
LVD	11.0V ADJ 9V….12V；×2/24V		
LVR	12.6V ADJ 11V….13.5V；×2/24V		
Float	13.8V ADJ 13V….15V；×2/24V		
Boost Voltage	14.4V ；×2/24 battery voltage less than 12.6v auto boost 2hours		
Battery Over Voltage Disconnection Voltage	16.5V ；×2/24V		
Reverse Connection Protection	Yes		
Load Over Current Protection	Yes, each 30s auto restart again		
Charge Type	PWM		
Temperature Compensation	-24 mV /℃ for 12Vsystem ；×2/24V；		
Working Temperature	-20℃---+55℃		
Terminal scale	14---6 AWG 16mm²		
Waterproof grade	IP32		
Size	190mm×108 mm×41.5mm		
New weight	450g		

* Please under rated power using under high temperature environment.