

PWM Solar Charge Controller

SKY Dream Series

Sky dream series is designed by imported 32bits CPU, common positive with LCD display. Adopting the most advanced digital technique high performance. Easy to connect with unique connector terminal. It can be used in solar home system, traffic signal, solar light system, etc.



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
- ◆ Fulllest digital protection functions: Overcharging, Over-discharging, Overload, Short Circuit, Reverse Connection, Controller Over-Temperature and so on.
- ◆ Max 16mm² connectors, colorful connector distinguish plus and minus poles.
- ◆ 5V 1A USB output



Series	Sky Dream Series	Sky Dream Series	Sky Dream Serial
Model	SD2420C	SD2440S	SD2460S
Photo			
Parameter			
CPU	32 bits	32 bits	32 bits
Rated Charging Current	10A/20A/30A	30A/40A	50A/60A
Rated Discharging Current	10A/20A	30A/40A	50A/60A
System Voltage	12V/24V	12V/24V or 48V	12V/24V or 48V
PV Max Input Voltage	55V	55V or 100V	55V or 100V
Charging Mode	PWM	PWM	PWM
Max.Power of Solar Panel	150W(12V)300W(24V)	500W(12V)1000W(24V)	1000W(12V)2000W(24V)
Current Display	No	Yes	Yes
LVD(SEL 12V *2 24V *3 36V *4 48V)	11V	11V	11V
LVR(SEL 12V *2 24V *3 36V *4 48V)	12.6V	12.6V	12.6V
Float Voltage(SEL)	13.8V	13.8V	13.8V
Boost Voltage(SEL)	14.4V	14.4V	14.4V
Over Voltage	16.5V	16.5V	16.5V
Over Voltage Protection Reconnection voltage	15V	15V	15V
Self-consumption	≤12mA	≤10mA	≤10mA
Working Ambient Temperature	- 20°C ~ 50°C	- 20°C ~ 50°C	- 20°C ~ 50°C
Appearance			
SIZE	168×92 ×34mm	200×106×41.5mm	200.1*127*54mm
Net Weight	320g	480g	720g
Pcs/CTN	40	30	24
Carton Size	540*405*235mm	448*390*283mm	470*434*305mm
Carton Weight	16.5kgs	16.2kgs	21kgs
Heat baseplate Material	Iron	Al	Al
Heat baseplate picture			
Display	LCD	LCD	LCD
Connector	10mm ²	16mm ²	25mm ²
Connector picture			
USB Port	1*USB	1*USB	No
USB Charging mode	5V1A CVCC*	5V1A CVCC*	/
Communication interface	No	Option	Option
Waterproof Grade	IP32	IP32	IP32
Performance			
Overload Protection	Yes	Yes	Yes
Short Circuit Protection	Yes	Yes	Yes
Reverse Connect Protection	Yes	Yes	Yes
Battery Over-Voltage Protection	Yes	Yes	Yes
Over Temperature Protection	No	Yes	Yes
Temperature Compensation	Yes	Yes	Yes
Thunder Protection	Yes	Yes	Yes
Battery type Selected	SEL/GEL/FLD SELECTED	SEL/GEL/FLD SELECTED	SEL/GEL/FLD SELECTED
Total Charging Power Ah	No	Yes	Yes
Total Discharging Power Ah	No	Yes	Yes
Working mode(Light and time control)	Yes	Yes	Yes
Working Status Record	Yes	Yes	Yes