



# CK series PWM solar charge controller

## CK10DU

(10A,15A)



CK10DU solar charge controller is an extension of a classic controller. The appearance of this controller is simple and clear, little red button design makes it easy to use.

The product inheriting and optimizing the classic circuit design, added USB 5V output and DC 12V output terminal, enable controller can charge cellphones and other electronic devices. Considerate solar panel, battery and load protection making this product more outstanding.

### Features:

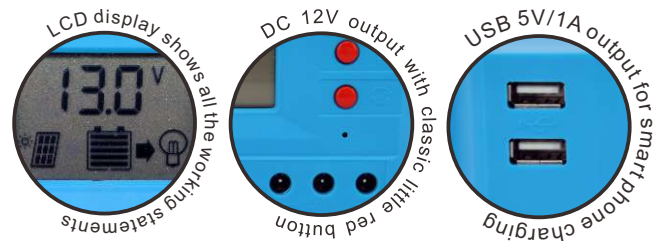
- PWM charging mode with 3 stages(bulk, absorption, float)
- Automatic detection of voltage
- Automatic load reconnection
- Automatic temperature compensation
- Simple button operation
- Adaptable to Sealed, Gel, Flooded and other customized battery type
- Preset parameters for charging and discharging (Special parameters can be customized)
- Various controlling mode for load
- USB output for smart phones and tablets X 2
- DC 12V output X 2

### Electronic protections:

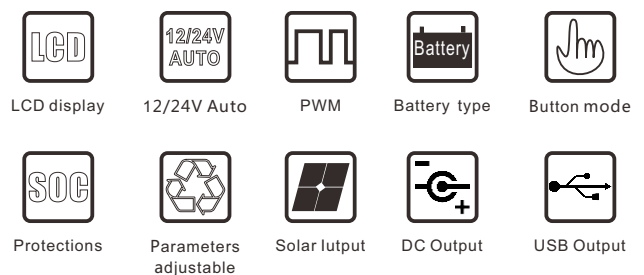
- Over charge protection
- Over discharge protection
- Over temperature and over load protection
- Automatic electronic fuse
- Short circuit protection of load and PV
- Input over voltage protection
- Reverse current protection at night
- Reverse connection protection of PV, load, and battery
- Overheat protection and short circuit protection of USB output

### Displays:

- Vivid LCD graphic symbols  
---presents working status and related parameters explicitly



color optional



Easy Installing



Indoor Lighting



Camping



**Model: CK10D\_SHS\_A**

Packing:  
CK10DU×1  
3W LED Bulb with 3m cable ×3  
Size:260mm\*200mm\*64mm  
Gross weight:0.53Kg

### Technical Data

Model		CK10DU
Solar Input	Input voltage	≤50V
	Rated input current	10A
	Charge loop voltage drop	≤0.3V
Battery	System voltage	12V/24V Auto
	No load loss	10.5mA(12V)/12.5mA(24V)
	Battery type	Sealed, GEL, Flooded, User customized
	Charging mode	4 stage(Bulk,Absorption,Float),PWM
	Float charge voltage	13.8V/27.6V
	Absorption charge voltage	14.4V(13V~15V)×1/×2
	Equalized charge voltage	14.6V(13V~15.5V)×1/×2
Temperature compensation	-4mV/Cell/°C	
Load	Rated load current	10A
	Discharge loop drop	≤0.18V
	Low voltage disconnect	10.8V/21.6V
	Low voltage reconnect	12.6V/25.2V
	Over voltage disconnect	16.0V/32.0V
Related	Max wire size	10mm <sup>2</sup> (AWG 3#)
	Working temperature	-20°C~50°C
	Working humidity	10%~90%,no condensation
	Dimension(L×W×H)	168mm×88mm×28mm
	Net weight	220g

