



SK series PWM solar charge controller



SK20DU

(20 A)

SK20DU is one of the SK series controllers. With a power range of up to 20A at automatically recognized 12V or 24V, it fits to a system size of maximum 480W.

Full circuit board protection, LCD for all working parameters. Clearly marked connection ports make it possible to connect easily to solar panels, battery and load. USB ports make it convenient to charge mobile phones.

Features:

- PWM charging mode with 4 stages(bulk, absorption, float and equalized)
- 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)
- Monthly equalization charge
- Various controlling mode for load
- USB output for smart phones and tablets 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



LCD display



12/24V Auto



USB Output



Battery type



Protections



Parameters adjustable



Temperature compensation



Button mode



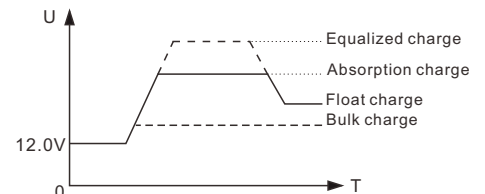
Color screen with backlight



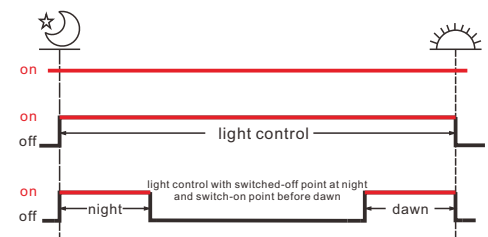
Battery capacity percentage



PWM



Working mode of Load



Technical Data

Model		SK20DU
Solar Input	Input voltage	≤50V
	Rated input current	20A
	Charge loop voltage drop	≤0.3V
Battery	System voltage	12V/24V Auto
	No load loss	10.5mA(12)/12.5mA(24V)
	Battery type	Sealed, GEL, Flooded, User customized
	Charging mode	4 stages(Bulk,Absorption,Float,Equalized),PWM
	Float charge voltage	13.8V/27.6V
	Absorption charge voltage	14.4V(13V~15V)×1/×2/×4
	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	6mm ² (AWG 3#)
	Working temperature	-20°C~55°C
	Working humidity	10%~90%,no condensation
	Dimension(L×W×H)	178mm×104.4mm×45.5mm
	Net weight	310g

