



# SK series PWM solar charge controller



## SK50D/SK60D (50-60 A)

SK series is a new series of intelligent multi-purpose solar charge controllers. Its innovative design makes it easy to install and quite user friendly. Optimized charging and discharging management extends the service life of batteries considerably. Meanwhile, parameters are explicitly displayed. All parameter values can be set to meet various applications.

### Features:

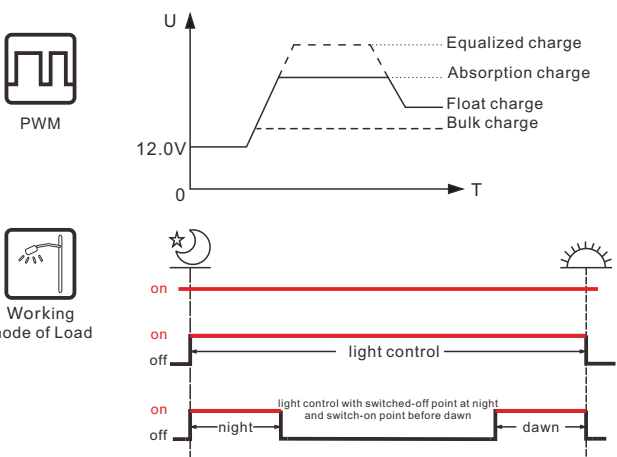
- Intelligent, high-efficient PWM charging mode in series connection
- Multistage charging technology (bulk, absorption, float and equalized)
- Most parameters displayed explicitly
- Automatic detection of battery voltage
- Automatic load reconnection
- Automatic temperature compensation
- Simple button operation
- Adaptable to Sealed, Gel, Flooded and other customized battery type
- Preset parameters for charging and discharging (Special parameters can be customized)
- All working parameters can be adjusted and reset
- Various controlling modes for load

### 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



### Technical Data

Model		SK50D	SK60D	SK5048D	SK6048D
Solar Input	Input voltage	≤50V		≤100V	
	Rated input current	50A	60A	50A	60A
	Charge loop voltage drop	≤0.22V		≤0.25V	
Battery	System voltage	12V/24V Auto		48V	
	No load loss	≤14mA		≤16mA	
	Battery type	Sealed,GEL,Flooded,User customized			
	Charging mode	4 stages(Bulk,Absorption,Float,Equalized),PWM			
	Float charge voltage	13.8V(13V~15V)×1/×2/×4			
	Absorption charge voltage	14.4V(13V~15V)×1/×2/×4			
	Equalized charge voltage	14.6V(13V~15.5V)×1/×2/×4			
Temperature compensation	-4mV/Cell/°C				
Load	Rated load current	50A	60A	50A	60A
	Discharge loop drop	≤0.12V		≤0.12V	
	Low voltage disconnect	10.8V(10V~14V)×1/×2/×4			
	Low voltage reconnect	12.6V(10V~14V)×1/×2/×4			
	Over voltage disconnect	16.0V×1/×2/×4			
Related	Max wire size	25mm <sup>2</sup> (AWG 3#)			
	Working temperature	-20°C~55°C			
	Working humidity	10%~90%,no condensation			
	Dimension(L×W×H)	50A(188×133×51.5mm)/60A(188×133×59mm)			
	Net weight	595g	735g	600g	740g

