



SK30D/SK40D

(30-40 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:

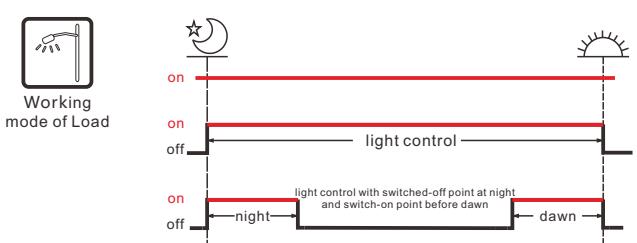
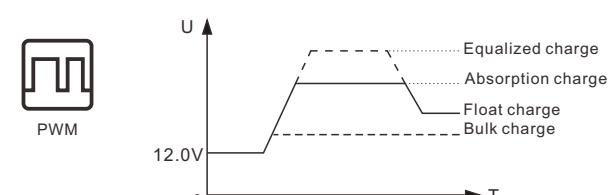
- PWM control
- Multistage charging technology(bulk, absorption, float and equalized)
- Most parameters displayed explicitly
- Automatic detection of battery voltage
- Automatic load reconnection
- Automatic temperature compensation
- Simple button operation
- Adaptable to Sealed, Gel, Flooded and other 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
- Self-timing
- Remote communication function(optional) ---RJ45 connection port, RS232, RS485 and standard Modbus communication protocol

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		SK30D	SK40D	SK3048D	SK4048D		
Solar Input	Input voltage	$\leq 50V$		$\leq 100V$			
	Rated input current	30A	40A	30A	40A		
	Charge loop voltage drop	$\leq 0.17V$		$\leq 0.28V$			
Battery	System voltage	12V/24V Auto		48V			
	No load loss	$\leq 13mA$		$\leq 15mA$			
	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	30A	40A	30A	40A		
	Discharge loop drop	$\leq 0.1V$		$\leq 0.1V$			
	Low voltage disconnect	10.7V(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	16mm ² (AWG 3#)					
	Working temperature	-20°C~55°C					
	Working humidity	10%~90%,no condensation					
	Dimension(L×W×H)	196mm×111mm×54mm					
	Net weight	401g	403g	410g	412g		

