



TK series PWM solar charge controller



TK50D/TK60D (50-60 A)

TK series solar charge controller is a series of high cost-performance product. The controller with high reliability, accuracy of sampling and full electronic protection. PWM multi stages charging making them more efficiency and better charging. They are with LCD display, all working data programmable. Through optional communication function (RS232 or RS485), people are able to remote monitoring and setting the system parameters.

Features:

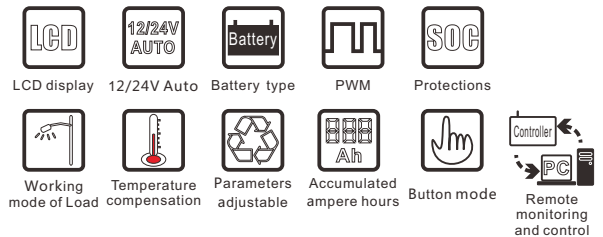
- PWM charging
- Multistage charging technology (Bulk, Absorption, Float, Equalized)
- Voltage regulation
- Automatic detection of voltage
- Automatic load reconnection
- Automatic temperature compensation
- Various controlling modes for load (light control, time & light control, normal mode)
- Adaptable to Sealed, Gel, Flooded and other customized battery type
- Preset parameters for charging and discharging (Special parameters can be customized)
- Optional communication function

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

Display:

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



Off-grid home solar system



RV, boat & field power supply solar system



Farm solar generation system

Technical Data

Model	TK50D	TK60D	TK5048D	TK6048D
Solar Input	Input voltage		≤50V	
	Rated input current	50A	60A	50A
	Charge loop voltage drop	≤0.22V		≤0.25V
Battery	System voltage		12V/24V Auto	
	No load loss		≤14mA	
	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
	Discharge loop drop		≤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 ² (AWG 3#)	
	Working temperature		-20°C~55°C	
	Working humidity		10%~90%,no condensation	
	Dimension(L×W×H)		50A(188×125×48.5mm)/60A(188×125×56mm)	
	Net weight	560g	700g	560g

