



TK series PWM solar charge controller



TK20DU/TK30DU (10A,20A,30A)

TK20DU and TK30DU With a power range of up to 30A at automatically recognized 12V or 24V, it fits to a system size of maximum 720W.

Full circuit board protection, LCD for all working parameter. 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:

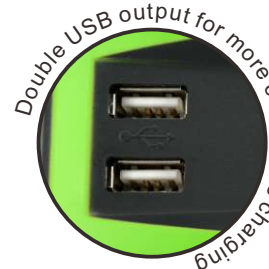
- PWM charging
- Multistage charging technology (Bulk, Absorption, Float, Equalized)
- Voltage regulation
- Automatic detection of voltage
- Automatic load reconnection
- Automatic temperature compensation
- Various controlling modes for load (light control, time & light control, normal mode)
- Adaptable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

Display:

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



TK20DU color: orange



TK30DU color: green



LCD display



12V/24V Auto



PWM



Protections



USB Output



Temperature compensation



Simple button operation



Off-grid home solar system



RV, boat & field power supply solar system



Farm solar generation system

Technical Data

Model	TK20DU		TK30DU
System voltage	12V/24V Auto		
Rated current	10A	20A	30A
Low voltage protection	10.7V/21.4V		
Low voltage reconnecting	12.6V/25.2V		
High voltage disconnection	15.5V/31.0V		
High voltage reconnection	15.0V/30.0V		
Charge/Discharge voltage drop	<0.22V/<0.12V		
Absorption charging voltage	14.4V/28.8V (lasting time:2 hours)		
Float charging voltage	13.8V/27.6V		
No load loss	≤12.5mA(USB disconnect)		
Overloading	≥1.2*rated current,60s		
	≥1.5*rated current,10s		
	≥1.8*rated current,0.2s		
USB output	5V, 1A		
Installing cables size	≤16mm ²		
Working temperature	-20℃ ~ 50℃		
Dimension(L x W x H)	188mm x 95mm x 46.5mm		
Net weight	345g		

