离网光伏产品系列
Off-grid PV products series

太阳能光伏控制器

SOKOYO

MPPT Controller

Product instruction

New step-down MPPT photovoltaic controller is a solar power generation device，adopt the MPPT (maximum power point tracking) algorithm, fully use solar energy . PV wide voltage range input , can charge for many type of battery , and three phase charging effectively improve the service life of battery.The controller modular design, many sets can used in parallel, enable customer's configuration flexible and free.

Function features

- Adopts industrial materials, ensure devices work stable and reliable
- Memory function, save Setting, date/time,generated electricity and other functions
- Charging ways: three-stage charging (constant current, constant voltage, floating), effectively prolong battery life
- LCD and LED display various parameters, such as model, pv input voltage, battery types, charging voltage , charging current, charging power, working condition and so on
- PV input adopt MPPT tracking technology, make photovoltaic modules work at best power point automatically
- Multiple devices can operate in parallel, expand the application scope , can satisfy the charging demands under high power .

Voltage level（VDC）	48	96	220
Rated battery voltage(VDC)	48	96	220
Rated charging current(A)	60	50/100	
Charging mode	The three stage: constant current, constant voltage (MPPT), float		
Working voltage range(VDC)	70-150	150-300	250-450
Maximum input voltage(VDC)	160	310	460
Recommended operating voltage(VDC)	120	180	330
Maximum efficiency(%)	>96%		
MPPT efficiency(%)	>99%		
Noise (db/ meters)	<55		
Display	LCD+LED		
Communication	RS485		
Working Temperature(℃)	-10—+50℃		
Relative Humidity	0-95% Non-condensing		
Elevation（m）	≦5000（1000 meters above the capacity to use）		
IP Grade	IP20		
D*W*H(mm)	180*100*270	483*175*400	
Protection Function	Reverse protection of photovoltaic array, battery back protection, anti – charge protection at night, battery over charge protection, over discharge protection, output overload protection, output short circuit protection		