

## TYC--30IR-S MPPT Solar Charge Controller



### Product Features

1. Iron shell and excellent heat dispersion
2. The creative maximum power is tracking, can improve the solar system availability dramatically and maximum conversion rate is >98%.
3. The tracking rate of maximum power is ≥99%
4. With charging mode indicator and working mode indicator;
5. Chinese and English liquid crystal (LCD) display;
6. The components used are all first-line brands, the high temperature resistance is not lower than 105 °C, and the design life is more than 10 years;
7. Display real-time power generation and curve and fault record
8. Display daily power generation and cumulative power generation
9. Two-way start , it can working as long as have the sunlight, Realize unattended function

### Product parameters:

<b>MODEL</b>	TYC-30IR-S
<b>Rated voltage</b>	12V/24VAuto
<b>Rated current</b>	30A
<b>Current limit protection</b>	32A
<b>Battery voltage identification range</b>	12V(9V-15V) ; 24V (18V-30V)
<b>MPPT Operating voltage range</b>	12V (18V-80V) ; 24V (24V-80V)
<b>Maximum PV input power</b>	12V(420W);24V(850W)
<b>PV input low voltage protection</b>	12V: DC16V, 24V: DC30V
<b>PV input low pressure recovery</b>	12V: DC18V, 24V: DC34V
<b>Limit input voltage</b>	85V
<b>PV input overvoltage protection</b>	80V
<b>PV input overvoltage recovery</b>	75V
<b>charging method</b>	3 Stage: constant current (MPPT)、equalizing charge、float charge
<b>system type</b>	Factory manual setting
<b>Static power consumption</b>	2W
<b>machine efficiency</b>	96.5%~99%
<b>PV module utilization</b>	99.97%
<b>Float voltage (can be customized)</b>	12V(13.75V) , 24V (27.5V)
<b>Average charge voltage (can be customized)</b>	12V(14.2V) , 24V (28.4V)
<b>Recommended PV module voltage</b>	12V(18V-45V) , 24V (36V-72V)
<b>Temperature compensation</b>	-3mV°C/2V
<b>Temperature protection</b>	85°C
<b>Temperature rise protection</b>	85°C or more to reduce power output
<b>Protective function</b>	Photovoltaic array short circuit, overvoltage, overcurrent reverse connection
<b>working temperature</b>	-10°C~+45°C
<b>Humidity</b>	0~90%RH ( Not condensation)
<b>Altitude</b>	0~3000m
<b>Security Level</b>	CE、PSE、FCC、EMC
<b>Mechanical protection class</b>	IP21
<b>Optional battery type</b>	Lead-acid batteries, gel batteries, lithium batteries (can also be customized)
<b>Product Size</b>	161*150*75MM
<b>weight</b>	2KG

