



MPPT Solar charger controller



- ◆Iron shell and excellent heat dispersion
- ◆The creative maximum power is tracking, can improve the solar system availability dramatically and maximum conversion rate is >98%.
- ◆The tracking rate of maximum power is ≥99%
- ◆English and Chinese LCD display
- ◆Adopt all the materials are famous brand, the high temperature resistance is ≥105°C, and the design life span is 10 years

Model	TYC-20IR	TYC-30IR	TYC-40IR	TYC-50IR	TYC-60IR
Rated voltage	12/24/48V Auto				
Rated current	20A	30A	40A	50A	60A
Maximum protection current	22A	32A	42A	52A	62A
Battery voltage identification range	12V(DC9-DC15V) ; 24V(DC18-DC30V) ; 48V(DC36-DC60V)				
MPPT Operating voltage range	12V (DC18V~DC150V) ; 24V(DC34V~DC150V); 48V(DC65V-150V)				
Maximum PV input power	12V280W	420W	570W	700W	900W
	24V550W	840W	1130W	1400W	1700W
	48V1100W	1650W	2270W	2800W	3400W
PV input low voltage protection point	12V:DC16V; 24V:DC30V; 48V:DC60V				
PV input low pressure recovery point	12V:DC18V; 24V:DC34V; 48V:DC65V				
Limit input voltage	DC160V				
PV input overvoltage protection point	DC150V				
PV input overvoltage recovery point	DC145V				
Static power consumption	≤2 W				
Machine efficiency	≥96.5% ≤99%				
PV module utilization	≤99%				
Float voltage (can be customized)	12V : 13.75V ; 24V : 27.5V ; 48V : 55V				
Average charge voltage(can be customized)	12V : 14.2V ; 24V : 28.4V ; 48V : 56.8V				
Recommended PV module voltage	12V:(18V-60V); 24V:(36V-72V); 48V:(72V-144V)				
Temperature compensation	-3mV°C/2V				
Temperature protection	90°C				
Temperature rise protection	8.5 ° C or more to reduce power output				
Protective function	PV array short circuit, overvoltage, overcurrent reverse polarity protection, battery overcharge, reverse protection				
Working temperature	-35°C to +55°C				
Humidity	0~90%RH (Not condensation)				
Altitude	0~3000m				
Security Level	CE、PSE、FCC、EMC				
Mechanical protection class	IP21				
Colour	Apple green (customizable)				
Product Size	218*154*65MM		250*180*75MM		
Weight	2KG		3KG		