



MPPT Solar Charger 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%

▷ Product parameters:

Model	TYC-20IR	TYC-30IR	TYC-40IR	TYC-50IR	TYC-60IR	TYC-50A96	TYC-60A96
Rated voltage	12/24/48V Auto						
Rated current	20A	30A	40A	50A	60A	50A	60A
Maximum protection current	22A	32A	42A	52A	62A	52A	62A
Battery voltage identification range	12V(DC9-15V);24V(DC18-30V);48V(DC36-60V) ;96V(DC72-120V)						
MPPT Operating voltage range	12V (DC18V~150V); 24V(DC34V~150V); 48V(DC65V-150V); 96V(DC120-180V)						
Maximum PV input power	12V280W	420W	570W	700W	900W		
	24V550W	840W	1130W	1400W	1700W	5600W	
	48V1100W	1650W	2270W	2800W	3400W	6800W	
PV input low voltage protection point	12V:DC16V; 24V:DC30V; 48V:DC60V; 96V:DC115V						
PV input low pressure recovery point	12V:DC18V; 24V:DC34V; 48V:DC65V; 96V:DC120V						
Limit input voltage	DC160V						
PV input overvoltage protection point	DC150V						
PV input overvoltage recovery point	DC145V						
Static power consumption	≤2W						
Machine efficiency	≥96.5%; ≤99%						
PV module utilization	≤99%						
Float voltage (can be customized)	12V: 13.75V; 24V: 27.5V;48V: 55V;96V:96-110V						
Average charge voltage(can be customized)	12V: 14.2V; 24V: 28.4V; 48V: 56.8V ;96V113.6V						
Recommended PV module voltage	12V:(18V-60V); 24V:(36V-72V); 48V:(72V-144V);96V(144V-180V)						
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, Under voltage protection						
Working temperature	-10°C~+45°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		260*192*80MM				
Weight	2KG		3.5KG				

