

Green energy for the world Usst MPPT Solar Charge Controller

Feature :

- 12V/24V36/48V Auto work, parallel design
- Multi-stage charging optimizes battery performance
- MPPT eficiency >99.5%, Peak conversion efficiency 97.5%
- Wide range solar PV voltage input 18V~150Vdc
- Compatible with Gel. AGM.Flooded. Sealed lead acid and Lithium battery
- Multi-finction LCD+LED display,system information intuitively
- Comprehensive protection
- Excellent Heatsink cooling design, quiet operation
- Comfortable installation and commissioning
- Monitoring your system on line via RS485 communition





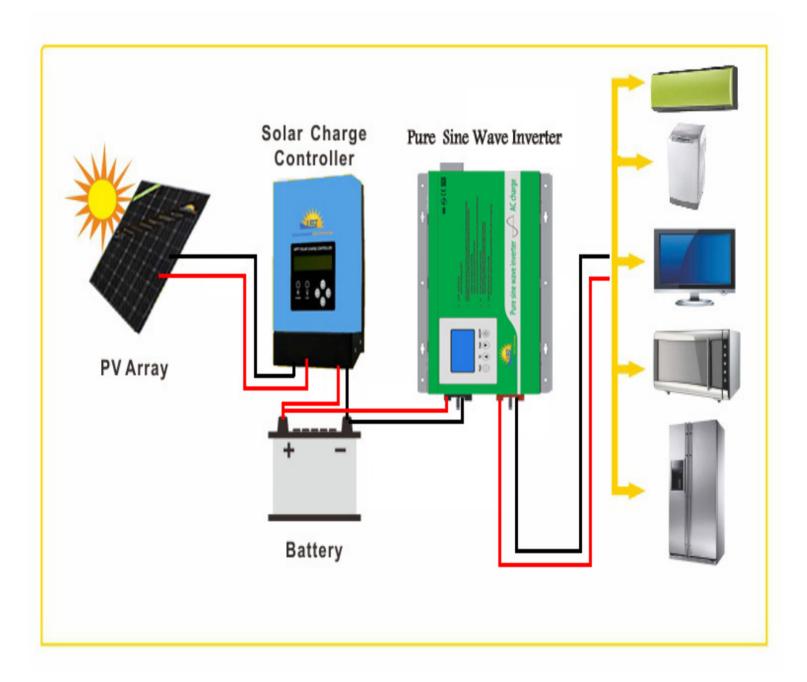






www.usstenergy.com

Application Diagram





Technical Data

Usst MPPT Solar Charge Controller USCH-50A

| Solar System Voltage | 12V/24V/36V/48V Auto work |
|---|---|
| Electrical | |
| PV Operating Voltage | 18~150Vdc@12V 35~150Vdc@24V 50~150Vdc@36V 60~150Vdc@48V |
| Max. PV input power | 12V 700W |
| | 24V 1400W |
| | 36V 2200W |
| | 48V 2900W |
| Rated input current | 50A |
| Rated DC load current | 60A |
| Self consumption | 2W |
| Max.Conversion Efficiency | 98.50% |
| Protection | PV array short circuit, over charging,battery reverse polarity,output short circuit |
| Battery charging | |
| Battery Type | Sealed Gel AGM Flooded Lithium Battery |
| Charge algorithm | 4 stage: Bulk, Absorption, Float, Equalize charging |
| Bulk charge voltage | Sealed: 14.4V AGM 14.2V Gel:14.2V Flooded:14.6V User defined:10-15V |
| Float charge voltage | Sealed/Gel/AGM:13.8V Flooded:13.7V User defined:10-15V |
| Equalize charge voltage | Sealed 14.6V AGM:14.8V Flooded:14.9V |
| Load disconnect voltage | 10.5V ~12V Adjustable |
| Low voltage reconnect voltage | 12.5V |
| Temperature compensation | 5MV/ /2V with BTS |
| Communication | |
| Communication Port | RS485(Standard) Ethernet RS232 Optional with On line monitoring system |
| Physical | |
| Net weight | 6.5kg |
| Gross weight | 7.3kg |
| Dimension | 310°230°110MM |
| Cooling | Heatsink cooling |
| Enclosure IP45 #Technical data for 12V system at 25°C, twice in 24V system rate, triple in 36V System rate and guaduple in 48V system rate, Environment | |
| Ambient operating | |
| temperature | -25 ~60 |
| Storage Temperature | -40 ~80 |
| Humidity | 5%-95% non-condensing |



www.usstenergy.com