



United Standard Solar Technology

Green energy for the world

Usst MPPT Solar Charge Controller

Feature :

- 12V/24V/36V/48V Auto work, parallel design
- Multi-stage charging optimizes battery performance
- MPPT efficiency >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-function 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 communication



Application



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Application Diagram



Technical Data

Usst MPPT Solar Charge Controller USCH-90A

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 1300W
	24V 2600W
	36V 3800W
	48V 5000W
Rated input current	90A
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	9.0kg
Gross weight	10kg
Dimension	300*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 quaduple in 48V system rate.	
Environment	
Ambient operating temperature	-25 ~60
Storage Temperature	-40 ~80
Humidity	5%-95% non-condensing

