

Switching power supply Manual

Model: S1200



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1. Model: CP-S1200

2. Application

The Powerful digital programming power supply is applied to any device with DC in 12-24V, It is designed special for high power charger and balancer charger applied to RC model.

3. Features:

Optimize and debug repeatedly in past 14 months, S1200 is released finally. The powerful supply can output 1200W at AC90V \sim 265V and in a so small size. The key is new technical help the unit to realize up to 94% of efficiency incredibly, and the internal temperature is still under 80°C. The following are many new features:

- Active PFC: smaller AC input current less interference, and Conform to European Commission Regulation no 278/2009 and Energy Star Version 2.0
- > AC 90-265V worldwide use: need not any alternative switcher, worldwide safe operation.
- Up to 94% of convert efficiency.
- Programming output voltage from 11.5 to 24.5V, suitable for more application
- Digital display output voltage and current on time.
- Over current, over voltage, over load and over temperature protection, and resume automatically
- > Short-circuit protection on output, safer and more reliable.
- ➤ 3 Intelligent cooling fans turned on at over 50°C
- 3 outputs can do more chargers simultaneously.
- ZVS/ZCS and Synchronous Rectification assure the highest efficiency.
- High power density: 521W/Kg
- > Start at no load or full load perfectly,
- Approved by CE
- 24 months warranty

4. Environment Requirements

➤ Ambient Temperature : -10--45°C

Ambient Humidity : 5%--95%

Storage Temp. : -20℃--70℃

Storage Humidity : 30%--90%





<u>www.chargery.com</u> page 2 total 4



5. Input

Rated Voltage: AC110 / 220V

➤ Voltage allowed: AC90 ~ 265V

Rated Freq. : 50/60Hz

> Freq. Allowed: 47~63Hz

Max Current : 15A @90V, 6.0A @220V

➤ Efficiency: 94% at 60% load and 220Vac input.

Active PFC: PF>0.99 at 90VAC and 100% of load; PF>0.97 at 220VAC and 100% of load

6. Output

➤ Voltage : 11.5 ~ 24.5V programmed

➤ Voltage accuracy: ±1%

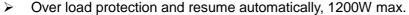
Ripple voltage: 150mV.

> Current: 0 ~ 50A (55A MAX.)

7. Protection

Over voltage protection and resume automatically,24.5V max.

Over current protection and resume automatically,55A max.



➤ Over temperature protection and resume automatically, 85°C max.

Short- circuit protection on output and resume automatically.

8. LED Indicator

Connect to AC power : Green

With load : Green

Protection mode: Red

9. Mechanical Characteristics

> Size : 286*145*68 (L*W*H, mm) or 11.3 * 5.7 * 2.7 (L*W*H, inch)

Weight: 2.3Kg without input cable

Output DC connector: 3 pairs 4mm gold banana female connector, each connector for 25A maximal current.







www.chargery.com page 3 total 4



10. Operating Instructions

- Plug CP-S1200 into AC 110 / 220V outlet and turn on
- Adjust the output voltage according to your charger
- Connect CP-S1200 to your charger

11. Warnings

- Never leave the power supply unattended when it turn on. If any malfunction is observed, please turn off the power supply as fast as possible.
- > Keep away the power supply from dust, damp, rain, heat direct sunshine and vibration. Do not drop it.
- > The power supply should be set up on non-inflammable and non-conductive surface. Never place on a car seat, carpet or similar.
- Keep all the inflammable volatile materials well away from operating area.
- Do not attempt to charge any types of battery including below:
 - Lead acid battery or VRLA
 - NIMH/NICd battery pack
 - Li-ion and lithium polymer battery

12. Warranty and Service

Chargery Power Co., Ltd. as manufacture of R/C model power warrants S1200 power supply to be free of defects in material and workmanship. This warranty is effective for **24** months from date of purchase. If within the warranty period the customer is not satisfied with the products performance resulting from a manufacturing defect, the accessory will be replaced or repaired. This warranty does not cover the damage due to wear, overloading, incompetent handling or using of incorrect accessories.

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www.chargery.com page 4 total 4