



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~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°C--70°C
- Storage Humidity : 30%--90%

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: $\pm 1\%$
- 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 load protection and resume automatically, 1200W 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.

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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