



Switching power supply Manual

Model: S600 v2.0

V2.0: output voltage is updated to 10-18V



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1. Model: S600 v2.0

2. Application

The Powerful digital programming power supply is applied to any device with DC in 10-18V, It is designed special for high power charger and balancer charger applied to RC model.

3. Features:

S600 is one of PFC power supply S series, as same high efficiency and small size as S1200, S600 can output 18V 33A 600W at AC90V~265V, and the internal temperature is still under 75°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 **92%** of convert efficiency
- Programming output voltage from 10 to 18.0V, 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
- 2 Intelligent cooling fans turned on at over 55°C
- 2 outputs can do more chargers simultaneously
- Synchronous Rectification make sure the high efficiency and small size
- High power density: 495W/Kg
- Start at no load or full load perfectly
- Approved by CE
- 12 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 : 8A @90V, 3.3A @220V
- Efficiency: 92% 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 : 10 ~ 18.0V programmed
- Voltage accuracy: $\pm 1\%$
- Ripple voltage: 150mV.
- Current: 0 ~ 33A (35A MAX.)
- USB: 5VDC, 0~500mA.

7. Protection

- Over voltage protection and resume automatically, 18.5V max.
- Over current protection and resume automatically, 35A max.
- Over load protection and resume automatically, 700W max.
- Over temperature protection and resume automatically, 85°C max.
- Short- circuit protection on output and resume automatically.



8. Mechanical Characteristics

- Size : 223*106*55 (L*W*H, mm) or 8.7 * 4.2 * 2.16 (L*W*H, inch)
- Weight: 1.25Kg without input cable
- Output DC connector: 2 pairs 4mm gold banana female connector, each connector for 25A maximal current.



9. Operating Instructions

- Plug the unit into AC 110 / 220V outlet and turn on
- Adjust the output voltage according to your charger
- Connect S600 to your charger

10. 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

11. Warranty and Service

Chargery Power Co., Ltd. as manufacture of R/C model power warrants S600 power supply to be free of defects in material and workmanship. This warranty is effective for 12 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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