**Sparkle Power Inc.**
A Leading Power Supply Manufacturer
Web site: http://www.sparklepower.com/

# GREEN 700 (SPI700GHN)

## 700 Watts EPS12V & ATX12V Switching Power Supply

### Features

- Complied with ATX12V and EPS12V standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Compatible with European Union Directive 2002/95/EC (Restriction on Hazardous Substances).
- Remote ON/OFF function
- Internal 12V DC fan included
- Noise Killer (thermal fan speed control function)
- Low noise and ripple
- Output over voltage, short circuit, and over current protection
- 100% Hi-pot, ATE, and burn-in tested
- Re-settable power shut down
- Complies with FCC part 15 subpart J class B 115Vac operation, and CISPR 22 class B at 230Vac operation
- Approved by CUL/UL60950-1,NEMKO EN60950-1 (CB Report), CE, EMC,FCC




### Input Characteristics

**Input Range:** 90 ~ 265Vac (RMS), Full Range Input

**Frequency:** 47 ~ 63Hz

**Input Current:** 8A (RMS) @115Vac, 4A (RMS) @230Vac

**Inrush Current:** No damage, typical 100A at cold start

### Specification

- **Temperature Range:** Operating: 0° ~ 50°C on full load, de-rate 4W/°C from 25° ~ 50°C; storage & shipping: -20° ~ +80°C
- **Humidity:** 5 ~ 95% RH on operating and storage
- **Dielectric Withstand:** Primary to Frame Ground 1800 VAC for 1sec
- **Efficiency:** 80% ~ 85%
- **Rise time:** Less than 20ms
- **Hold-up Time:** 30ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ~ 500ms, off delay 1ms minimum (TTL and CMOS compatible)
- **Leakage Current:** Less than 3.5mA
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 140x150x86mm / 5.5x5.9x3.4in

### Output Characteristics

| Output Voltage | Minimum Load | Normal Load | Maximum Load | Load Reg. | Line Reg. | Ripple & Noise |
|---|---|---|---|---|---|---|
| **+3.3V** | 0.8A | 18A | 36A | ± 5% | ± 1% | 75mV P-P |
| **+5V** | 0.5A | 15A | 30A | ± 5% | ± 1% | 75mV P-P |
| **+12V1** | 1A | 9A | 18A | ± 5% | ± 1% | 140mV P-P |
| **+12V2** | 1A | 9A | 18A | ± 5% | ± 1% | 140mV P-P |
| **+12V3** | 1A | 9A | 18A | ± 5% | ± 1% | 140mV P-P |
| **+12V4** | 1A | 9A | 18A | ± 5% | ± 1% | 140mV P-P |
| **-12V** | 0A | 0.4A | 0.8A | ± 10% | ± 1% | 200mV P-P |
| **+5Vsb** | 0.1A | 1.5A | 3.0A | ± 5% | ± 1% | 75mV P-P |

* +3.3V and +5V total output not exceed 155W
* Total combined current of +12V rails is 50A

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