

Features

- Low cost
- High reliability
- 105°C output capacitor
- International AC input range
- High efficiency, low temperature rise
- Soft-start circuit, limiting AC surge current
- Short circuit, overload, battery protected
- Compact size, light weight
- 100% full load burn-in test
- Built in EMI filter, low ripple noise



| | CH1 | CH2 | CH3 |
|----------------------------|---|----------|-------|
| DC output voltage | 13.8V | 5V | 13.4V |
| Output V. tolerance | ±1% | ±3% | --- |
| Output rated current | 2.5A | 3A | 0.23A |
| Output current range | 0-3.5A | 0-4A | --- |
| Ripple & noise | 100mVp-p | 100mVp-p | --- |
| Line regulation | ±1% | ±0.5% | --- |
| Load regulation | ±1% | ±0.5% | --- |
| DC output power | 52.58W | | |
| Efficiency | 71% | | |
| DC voltage adj. | CH1: 12-14.5V | | |
| Input voltage range | 88~264VAC 47~63Hz; 120-370VDC | | |
| AC current | 1.6A/115V 1A/230V | | |
| Inrush current | cold start 20A/115V 40A/230V | | |
| Leakage current | <1mA/240VAC | | |
| Overload protection | 105%~150% / 230VAC type: Hiccup mode, recovers automatically after fault condition is removed | | |
| Over voltage protection | CH1: 105%~135% type: pulse by pulse | | |
| DC alarm signal (optional) | AC fail CH1 PIN2 battery low under charge voltage 82.5% ± 2% CN1 PIN1 normal 0.8V max. abnormal 5V±0.5V | | |
| Temperature coefficient | ±0.03% / °C (0~50°C) on CH1 output | | |
| Set up, rise, hold up time | 1.6s, 50ms, 16ms/115VAC 800ms, 50ms, 60ms / 230VAC | | |
| Vibration | 10~500Hz, 2G 10 min./1 cycle, period of 60 min. each axes | | |
| Withstand voltage | I/P-O/P: 3KVAC, I/P-FG: 1.5KVAC, O/P-FG: 0.5KVAC, for 1 min. | | |
| Isolation resistance | I/P-O/P, I/P-FG, O/P-FG: 500VDC / 100M Ohms min. | | |
| Working temp., humidity | -10°C~+60% (refer to output derating curve), 20%-90% RH | | |
| Storage temp., humidity | -20°C~+85°C, 10%-95% RH | | |
| Dimensions | 6.36x3.88x1.52 inches (161.54x98.55x38.6mm) Case: 901 | | |
| Weight | 1.25lbs (0.57 Kgs) | | |
| Safety standards | meets IEC950 requirements | | |
| EMC standards | meets CISPR22 (EN55022) class B, EN61000-4,2,3,4,5,6,8,11, EN61000-3-2, -3 verification | | |

Notes:

1. All parameters are specified at 230VAC input, rated load, 25°C 70% ambient
2. Tolerance includes set up tolerance, line regulation, load regulation
3. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uF & 47 uF capacitor
4. Line regulation is measured from low line to high line at rated load
5. Load regulation is measured from 20% to 100% rated load, and other output at 60% rated load
6. Each output provides up to maximum current, but total load can not exceed maximum output power
7. CH2 Bat. charger voltage at no load, rated current at Bat. V=11V/22V

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I/P

EMI Filter

Rectifiers & Filter

Power Switching

Rectifiers & Filter

Bat. Charger & Back Up

Switching Regulator

+5V

+V

Com

Detection Circuit

PWM Control

O.L.P.

FG

fosc: 45KHz

| Ambient Temp. (°C) | Load (%) - With 18.2CFM min.(10cm) | Load (%) - No Fan |
|--------------------|------------------------------------|-------------------|
| -10 | 80 | 70 |
| 0 | 100 | 70 |
| 40 | 100 | 70 |
| 50 | 100 | 50 |
| 60 | 100 | 0 |

Pin No. Assignment

| | |
|------|------------|
| C | Input |
| C | Input |
| G | |
| C | Output Com |
| C | Output +V |
| at. | + |
| at. | -/Com |
| C/DC | Output +5V |

