



MEAN WELL

SWITCHING POWER SUPPLY
ISO-9001 CERTIFIED MANUFACTURER

S-100 SERIES

- .LOW COST, HIGH RELIABILITY
- .105°C OUTPUT CAPACITOR
- .INTERNATIONAL AC INPUT RANGE
- .HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- .SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- .SHORT CIRCUIT, OVERLOAD PROTECTED
- .COMPACT SIZE, LIGHT WEIGHT
- .100% FULL LOAD BURN-IN TEST
- .BUILT IN EMI FILTER, LOW RIPPLE NOISE



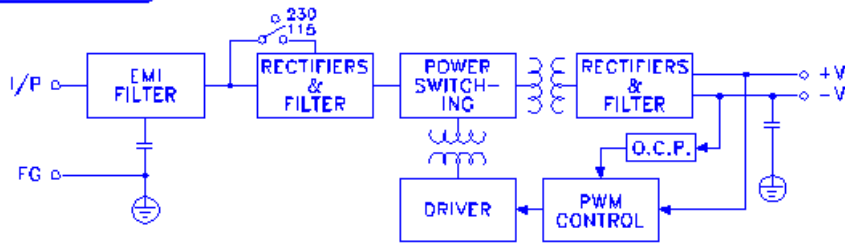
| MODEL | S-100-3 | S-100-5 | S-100-7.5 | S-100-12 | S-100-15 | S-100-24 | S-100-27 | S-100-48 |
|---------------------------|---|-----------|------------|------------|------------|------------|----------|------------|
| DC OUTPUT VOLTAGE | 3V | 5V | 7.5V | 12V | 15V | 24V | 27V | 48V |
| OUTPUT V. TOLERANCE | ±2% | ±2% | ±1% | ±1% | ±1% | ±1% | ±1% | ±1% |
| OUTPUT RATED CURRENT | 20A | 20A | 13.6A | 8.5A | 6.7A | 4.5A | 3.7A | 2A |
| OUTPUT CURRENT RANGE | 0-20A | 0-20A | 0-13.6A | 0-8.5A | 0-6.7A | 0-4.5A | 0-3.7A | 0-2A |
| RIPPLE & NOISE | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p | 100mVp-p |
| LINE REGULATION | ±0.5% | ±0.5% | ±0.5% | ±0.3% | ±0.3% | ±0.2% | ±0.2% | ±0.2% |
| LOAD REGULATION | ±0.5% | ±0.5% | ±0.5% | ±0.3% | ±0.3% | ±0.2% | ±0.2% | ±0.2% |
| DC OUTPUT POWER | 60W | 100W | 102W | 102W | 100.5W | 108W | 99.9W | 96W |
| EFFICIENCY | 70% | 78% | 80% | 81% | 81% | 84% | 84% | 84% |
| DC VOLTAGE ADJ. | 2.85-3.3V | 4.75-5.5V | 6.75-8.25V | 10.8-13.2V | 13.5-16.5V | 21.6-26.4V | 26-32V | 43.2-52.8V |
| INPUT VOLTAGE RANGE | 85~132VAC / 180~264VAC SELECTED BY SWITCH 47~63Hz; 255~370VDC | | | | | | | |
| AC CURRENT | 2.4A/115V 1.2A/230V | | | | | | | |
| INRUSH CURRENT | COLD START 30A/115V 60A/230V | | | | | | | |
| LEAKAGE CURRENT | <1mA/240VAC | | | | | | | |
| OVERLOAD PROTECTION | 105~150% | 130~180% | 150~200% | 105~150% | | | | |
| | TYPE:OUTPUT SHUTDOWN RESET:RECYCLE AC ON / OFF | | | | | | | |
| OVER VOLTAGE PROTECTION | ----- | | | | | | | |
| OVER TEMP. PROTECTION | ----- | | | | | | | |
| TEMP. COEFFICIENT | ±0.03% / °C (0~50°C) | | | | | | | |
| SETUP, RISE, HOLD UP TIME | 200ms, 50ms, 20ms | | | | | | | |
| VIBRATION | 10~500Hz, 2G 10min./1cycle, PERIOD FOR 60min. EACH AXES | | | | | | | |
| WITHSTAND VOLTAGE | I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC | | | | | | | |
| ISOLATION RESISTANCE | I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms | | | | | | | |
| WORKING TEMP., HUMIDITY | -10°C~+60°C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH | | | | | | | |
| STORAGE TEMP., HUMIDITY | -20°C~+85°C, 10%~95% RH | | | | | | | |
| DIMENSION | 199*98*38mm CASE:902 | | | | | | | |
| WEIGHT | 0.65Kgs | | | | | | | |
| SAFETY STANDARDS | MEET UL1012 REQUIREMENT (NOT APPLY FOR THE MARK) | | | | | | | |
| EMC STANDARDS | MEET FCC PART15 J CONDUCTION CLASS B | | | | | | | |

- NOTE :
- 1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
 - 2.TOLERANCE GINCLUDE 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 & 47uF CAPACITOR.
 - 4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
 - 5.LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD.

JUN.12.98

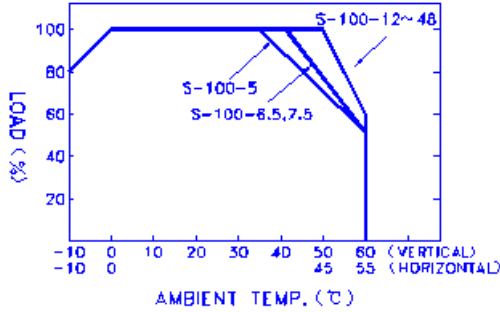
S-100 SERIES

BLOCK DIAGRAM

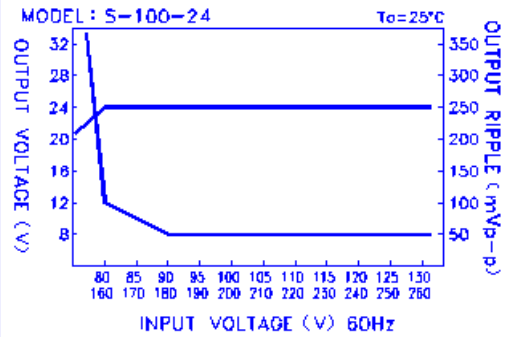


fosc: 25KHz

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)

- ☒ CASE : 902
- ☒ TERMINAL PIN NO. ASSIGNMENT
- ☒ PIN 1,2 : AC INPUT
- ☒ PIN 3 : FG ⊕
- ☒ PIN 4,5 : DC OUTPUT -V
- ☒ PIN 6,7 : DC OUTPUT +V

