



MEAN WELL

SWITCHING POWER SUPPLY
ISO-9001 CERTIFIED MANUFACTURER

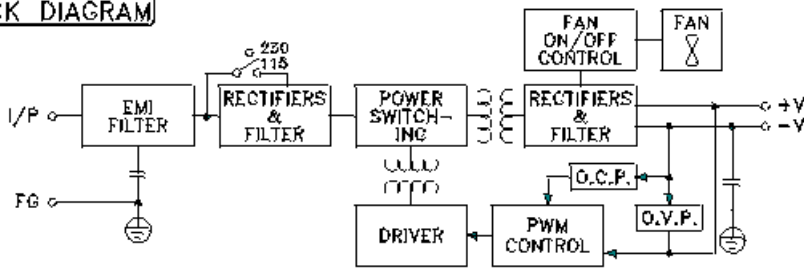
S-201 SERIES

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

MODEL	S-201-5	S-201-7.5	S-201-12	S-201-13.5	S-201-15	S-201-24	S-201-27	S-201-48
DC OUTPUT VOLTAGE	5V	7.5V	12V	13.5V	15V	24V	27V	48V
OUTPUT V. TOLERANCE	±2%	±2%	±1%	±1%	±1%	±1%	±1%	±1%
OUTPUT RATED CURRENT	40A	26.5A	16.5A	14.7A	13A	8.3A	7.4A	4.2A
OUTPUT CURRENT RANGE	0-40A	0-26.5A	0-16.5A	0-14.7A	0-13A	0-8.3A	0-7.4A	0-4.2A
RIPPLE & NOISE	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p
LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
LOAD REGULATION	±1%	±1%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
DC OUTPUT POWER	200W	198.75W	198W	198.45W	198W	199.2W	199.8W	201.6W
EFFICIENCY	74%	79%	80%	80%	81%	83%	83%	84%
DC VOLTAGE ADJ.	4.5-5.6V	6-9V	10-13.2V	12-15V	13.5-18V	20-26.4V	26-32V	41-56V
INPUT VOLTAGE RANGE	90~132VAC / 180~264VAC BY SWITCH 47~63Hz; 254~370VDC							
AC CURRENT	4.5A/115V 2.5A/230V							
INRUSH CURRENT	25A/115V 50A/230V							
LEAKAGE CURRENT	<3.5mA/240VAC							
OVERLOAD PROTECTION	105~135% TYPE:PULSING HICCUP SHUTDOWN RESET:AUTO RECOVERY							
OVER VOLTAGE PROTECTION	5.75-6.75V	9.4-10.9V	13.8-16.2V	15.5-18.2V	18-21V	27.6-32.4V	33.7-39.2V	57.6-67.2V
OVER TEMP. PROTECTION	RTH3>=90°C OUTPUT SHUTDOWN							
TEMP. COEFFICIENT	±0.03% / °C (0~50°C)							
SETUP, RISE, HOLD UP TIME	200ms, 100ms, 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~+50°C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH							
STORAGE TEMP., HUMIDITY	-20°C~+85°C, 10%~95% RH							
DIMENSION	215*115*50mm CASE:912							
WEIGHT	0.9Kgs							
SAFETY STANDARDS	DESIGN REFER TO UL1950							
EMC STANDARDS	DESIGN REFER TO FCC PART15 CLASS A							

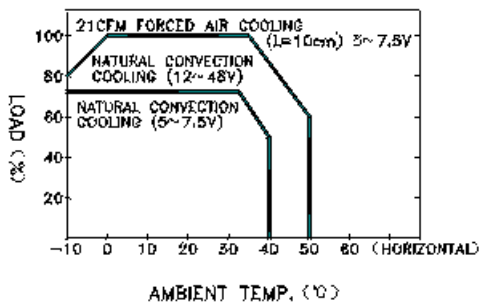
- NOTE :
- 1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
 - 2.TOLERANCE GINCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
 - 3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
 - 4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
 - 5.LOAD REGULATION IS MEASURED FROM 0% TO 100% RATED LOAD.
 - 6.C3,4 MUST BE REMOVED.

BLOCK DIAGRAM

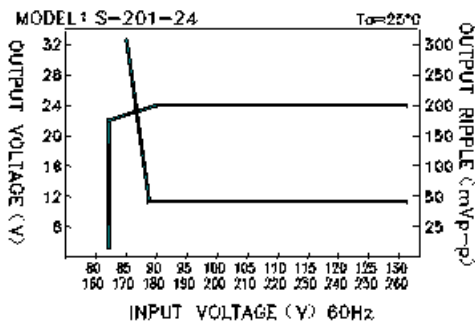


fosc = 25KHz

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)

- ☒ CASE : 912
- ☒ TERMINAL PIN NO. ASSIGNMENT
- ☒ PIN 1,2 : AC INPUT
- ☒ PIN 3 : FG ⊕
- ☒ PIN 4,5,6 : DC OUTPUT -V
- ☒ PIN 7,8,9 : DC OUTPUT +V

