



# MEAN WELL

SWITCHING POWER SUPPLY  
ISO-9001 CERTIFIED MANUFACTURER

# S-200 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



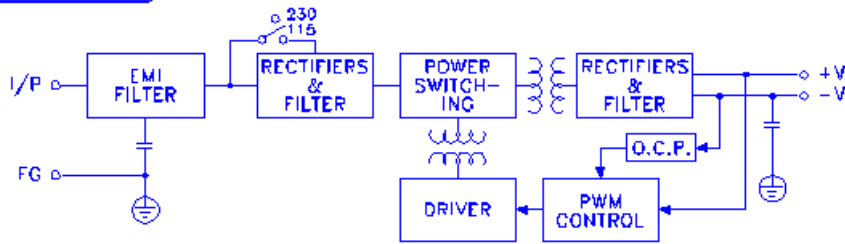
MODEL	S-200-5	S-200-12	S-200-15	S-200-24	S-200-27
SPECIFICATION					
DC OUTPUT VOLTAGE	5V	12V	15V	24V	27V
OUTPUT V. TOLERANCE	±2%	±1%	±1%	±1%	±1%
OUTPUT RATED CURRENT	40A	16.5A	13.3A	8.5A	7.4A
OUTPUT CURRENT RANGE	0-40A	0-16.5A	0-13.3A	0-8.5A	0-7.4A
RIPPLE & NOISE	180mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p
LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
LOAD REGULATION	±1%	±0.5%	±0.5%	±0.5%	±0.5%
DC OUTPUT POWER	200W	200W	200W	204W	200W
EFFICIENCY	75%	79.5%	80%	81.5%	82%
DC VOLTAGE ADJ.	4.75-5.5V	10.8-13.2V	13.5-16.5V	21.6-26.4V	26-32V
INPUT VOLTAGE RANGE	85~132VAC / 176~264VAC. SELECTED BY SWITCH 47~63Hz; 248~370VDC				
AC CURRENT	4.2A/115V 2.2A/230V				
INRUSH CURRENT	COLD START 30A/115V 60A/230V				
LEAKAGE CURRENT	<0.5mA/240VAC				
OVERLOAD PROTECTION	110%~160%	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, 80ms, 16ms				
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	150*140*86mm CASE:907				
WEIGHT	1.3Kgs				
SAFETY STANDARDS	MEET UL1012 REQUIREMENT (NOT APPLY FOR THE MARK)				
EMC STANDARDS	MEET FCC PART15 J CONDUCTION CLASS A				

NOTE :

- 1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
- 2.TOLERANCE INCLUDE 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.

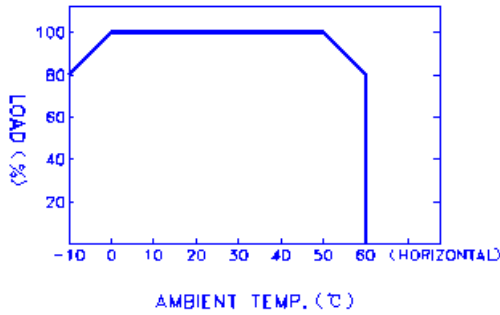
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## BLOCK DIAGRAM

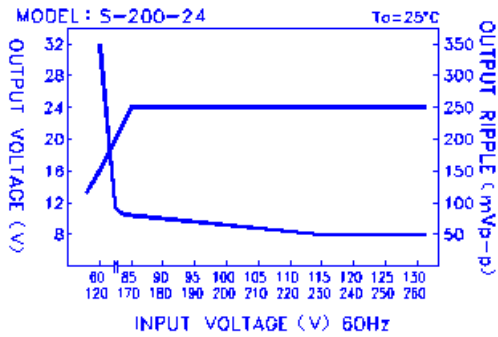


fosc: 25KHz

## OUTPUT DERATING



## STATIC CHARACTERISTICS



## DIMENSION (mm)

- ☒ CASE : 907
- ☒ 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

