



MEAN WELL

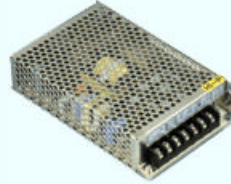
SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

ID-50

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, OVER VOLTAGE PROTECTED
- .COMPACT SIZE, LIGHT WEIGHT
- .100% FULL LOAD BURN-IN TEST
- .BUILT IN EMI FILTER, LOW RIPPLE NOISE

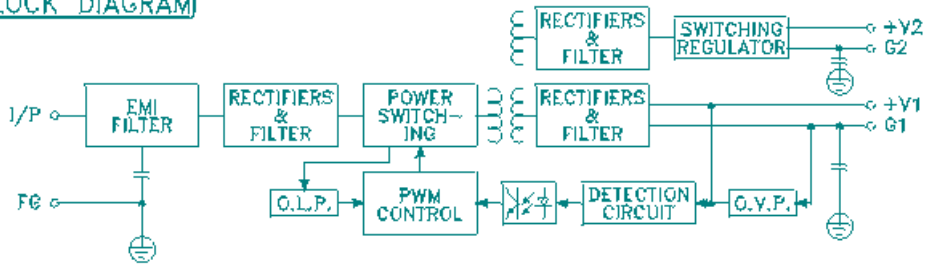


SPECIFICATION	ID-50A		ID-50B		D-50C		ID-50D	
	CH1	CH2	CH1	CH2	CH1	CH2	CH1	CH2
DC OUTPUT VOLTAGE	5V	5V	13.5V	13.5V	27V	27V	5V	13.5V
OUTPUT V. TOLERANCE	±1%	±2%	±1%	±2%	±1%	±2%	±1%	±2%
OUTPUT RATED CURRENT	6A	2A	1.8A	1.8A	0.9A	0.9A	5A	1.7A
OUTPUT CURRENT RANGE	0.5-6A	0-2A	0.3-2A	0-2A	0.18-1A	0-1A	1-5A	0-2A
RIPPLE & NOISE	50mVp-p	100mVp-p	100mVp-p	150mVp-p	100mVp-p	150mVp-p	50mVp-p	150mVp-p
LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.3%	±0.5%	±0.5%	±0.5%
LOAD REGULATION	±0.5%	±1%	±0.5%	±0.5%	±0.3%	±0.5%	±0.5%	±0.5%
DC OUTPUT POWER	40W		48W		48W		48W	
EFFICIENCY	66%		70%		72%		68%	
DC VOLTAGE ADJ.	CH1,2:4.75-5.5V		CH1,2:12-15V		CH1,2:24-30V		CH1:4.75-5.5V	
INPUT VOLTAGE RANGE	85~264VAC 47~63Hz; 120~370VDC							
AC CURRENT	1A/115V 0.6A/230V							
INRUSH CURRENT	COLD START 18A/115V 36A/230V							
LEAKAGE CURRENT	<3.5mA/240VAC							
OVERLOAD PROTECTION	105%~150%/115VAC TYPE:PULSING HICCUP SHUTDOWN RESET:AUTO RECOVERY RESET:AUTO RECOVERY							
OVER VOLTAGE PROTECTION	CH1:6.4~7.5V		CH1:17~21V		CH1:32~40V		CH1:6.4~7.5V	
OVER TEMP. PROTECTION	-----							
TEMP. COEFFICIENT	±0.03% / °C (0~50°C) ON +5V OUTPUT							
SETUP, RISE, HOLD UP TIME	1.6s, 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	159*97*38mm CASE:901							
WEIGHT	0.53Kgs							
SAFETY STANDARDS	MEET IEC950 REQUIREMENT (NOT APPLY FOR THE MARK)							
EMC STANDARDS	-----							

- 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 0.1µF & 47µF 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 PROVIDE UP TO MAXIMUM CURRENT, BUT TOTAL LOAD CAN NOT EXCEED MAX. OUTPUT POWER.
 7. C2,3,5 MUST BE REMOVED.

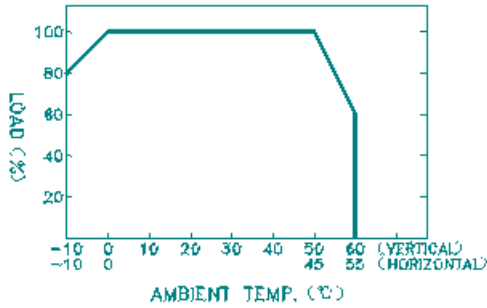
ID-50 SERIES

BLOCK DIAGRAM

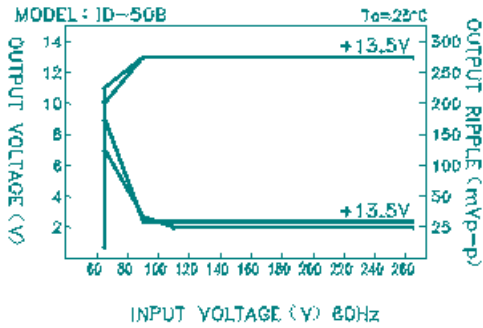


$f_{osc} = 50\text{KHz}$

OUTPUT DERATING



STATIC CHARACTERISTICS



DIMENSION (mm)

- ☒ CASE : 901
- ☒ TERMINAL PIN NO. ASSIGNMENT
- ☒ PIN 1,2 : AC INPUT
- ☒ PIN 3 : FG \oplus
- ☒ PIN 4 : DC OUTPUT G2
- ☒ PIN 5 : DC OUTPUT +V2
- ☒ PIN 6 : DC OUTPUT G1
- ☒ PIN 7 : DC OUTPUT +V1

