



Features :

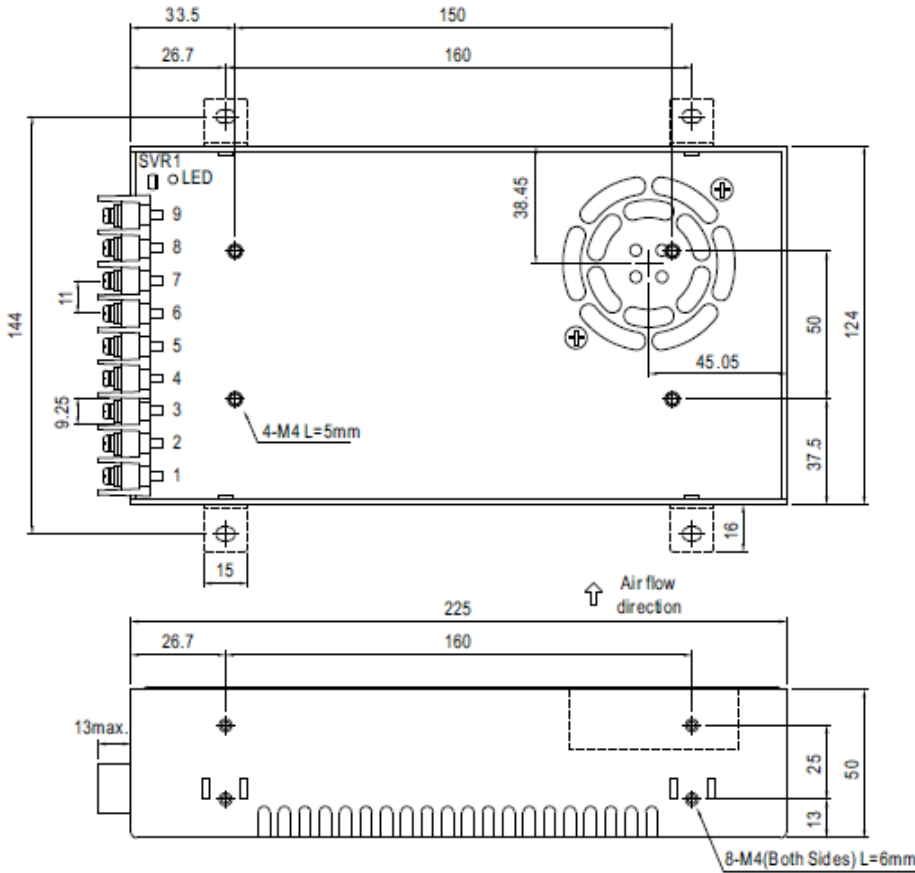
- AC input active surge current limiting
- AC input range selected by switch
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC fan
- Built-in remote sense function
- 2 years warranty



MODEL		HPS-U451S3.3	HPS-U451S5	HPS-U451S12	HPS-U451S15	HPS-U451S24	HPS-U451S36	HPS-U451S48	
OUTPUT	DC VOLTAGE	3.3V	5V	12V	15V	24V	36V	48V	
	RATED CURRENT	75A	75A	37.5A	30A	18.8A	12.5A	9.4A	
	CURRENT RANGE	0~75A	0~75A	0~37.5A	0~30A	0~18.8A	0~12.5A	0~9.4A	
	RATED POWER	247.5W	375W	450W	450W	451.2W	450W	451.2W	
	RIPPLE & NOISE (max.)	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	2.97~3.63V	4.5~5.5V	10.8~13.5V	13.5~16.5V	21.6~28.5V	32.4~39.6V	43.2~52.8V	
	VOLTAGE TOLERANCE	±3.0%	±3.0%	±1.0%	±1.0%	±1.5%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	
	LOAD REGULATION	±2.0%	±2.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	1500ms,50ms/230VAC 1500ms,50ms/115VAC((at full load)							
HOLD UP TIME (Typ.)	16ms/230VAC 12ms/115VAC((at full load)								
INPUT	VOLTAGE RANGE	90~132VAC/180~264VAC selected by SW 254~370VDC							
	FREQUENCY RANGE	47~63Hz							
	EFFICIENCY (Typ.)	74%	78%	83%	84%	86%	86%	88%	
	AC CURRENT (Typ.)	10A/115VAC 6A/230VAC							
	INRUSH CURRENT (Typ.)	35A/115VAC 55A/230VAC							
LEAKAGE CURRENT	< 2.5mA/240VAC								
PROTECTION	OVERLOAD	105 ~ 125% rated output power Protection type : Shut down o/p voltage, re-power on to recover							
	OVER VOLTAGE	3.8~4.6V	5.75~6.75V	13.8~16.2V	18~21 V	32~36V	45~52V	57.6~67.2V	
	OVER TEMPERATURE	8°C ±5°C(3.3~12V); 90°C ±5°C(15~48V)(TSW1:detect on heatsink of power transistor Protection type : Shut down o/p voltage, re-power on to recover							
ENVIRONMENT	WORKING TEMP.	-10~+60. C							
	WORKING HUMIDITY	20~90%RH,non-condensing							
	STORAGE TEMP., HUMIDITY	-40~+ 85°C , 10~95% RH							
	TEMP. COEFFICIENT	±0.05%/°C(0~ 50°C)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes							
SAFETY	SAFETY STANDARDS	UL60950-1approved							
	WITHSTAND VOLTAGE	I/p-0/P: 3KVAC I/p-FG: 1.5KVAC 0/p-FG: 0.5KVAC							
	ISOLATION RESISTANCE	I/P-0/P, I/P-FG, 0/P-FG: 100M Ohms / 500VDC / 25°C / 70% RH							
OTHERS	MTBF	≥ 200K hrs. MIL-HDBK-217F (25°C)							
	DIMENSION	225*124*50mm (L*W*H)							
	PACKING	1.25Kg							

Mechanical Specification

Case No.926A Unit:mm

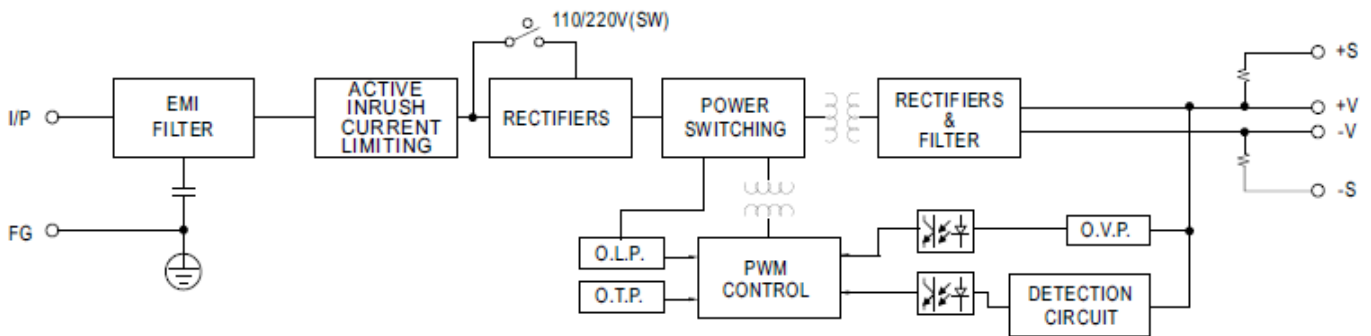


Terminal Pin No. Assignment :

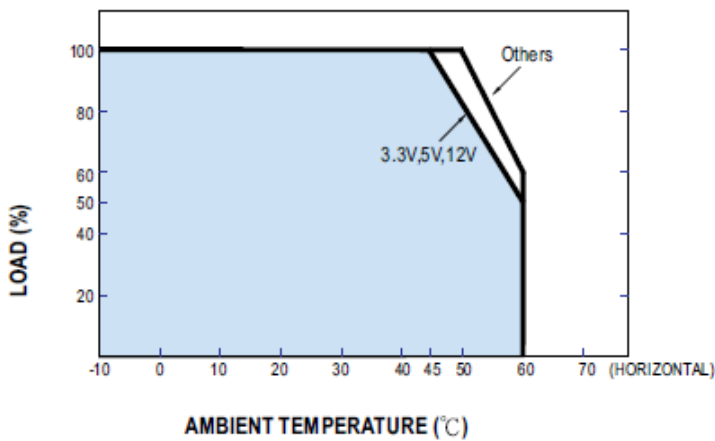
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4~6	DC OUTPUT -V
2	AC/N	7~9	DC OUTPUT +V
3	FG \perp		

Block Diagram

fosc : 100KHz



Derating Curve



Static Characteristics

