



**Features :**

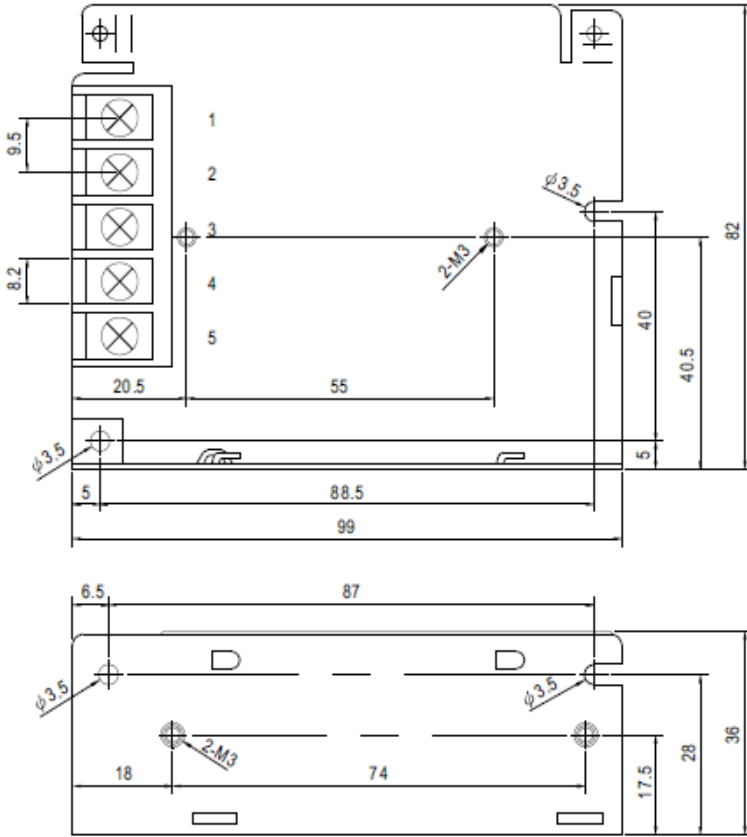
- Universal AC input / Full range
- Protections: Short circuit / Over load / Over voltage
- Cooling by free air convection
- LED indicator for power on
- 100% full load burn-in test
- All using 105 °C long life electrolytic capacitors
- Withstand 300VAC surge input for 5 second
- High operating temperature up to 70
- Withstand 5G vibration test
- High efficiency, long life and high reliability
- 3 years warranty



MODEL		HPS-U035S3.3M	HPS-U035S5M	HPS-U035S12M	HPS-U035S15M	HPS-U035S24M	HPS-U035S48M
OUTPUT	DC VOLTAGE	3.3V	5V	12V	15V	24V	48V
	RATED CURRENT	7A	7A	3A	2.4A	1.5A	0.8A
	CURRENT RANGE	0~7A	0~7A	0~3A	0~2.4A	0~1.5A	0~0.8A
	RATED POWER	23.1W	35W	36W	36W	36W	38.4W
	RIPPLE & NOISE	80mVp-p	80mVp-p	120mVp-p	120mVp-p	120mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	2.9V~3.6V	4.5~5.5V	10.8~13.2V	13.5~16.5V	22~27.6V	42~54V
	VOLTAGE TOLERANCE	±3.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	500ms,50ms/230VAC 1200ms,50ms/115VAC {at full load}					
	HOLD UP TIME (Typ.)	80ms/230VAC 15ms/115VAC (at full load)					
INPUT	VOLTAGE RANGE	88-264VAC 125/373VDC (Withstand 300VAC surge for 5sec. Without damage)					
	FREQUENCY RANGE	47~63Hz					
	EFFICIENCY (Typ.)	76.50%	80.50%	84.50%	86%	88%	88.50%
	AC CURRENT (Typ.)	0.8A/115VAC 0.55A/230VAC					
	INRUSH CURRENT (Typ.)	COLD START: 36A/230VAC					
	LEAKAGE CURRENT	< 2mA/240VAC					
PROTECTION	OVERLOAD	Above 105% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	3.8~4.45V	5.75~6.75V	13.8~16.2V	17.25~20.25V	27.6~32.4V	55.2~64.8V
ENVIRONMENT	WORKING TEMP.	-25~70 °C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20~90% RH, non-condensing					
	STORAGE TEMP., HUMIDITY	-40~85 °C, 10~95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~50 °C)					
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC	SAFETY STANDARDS	UL60950-1, TUVEN60950-1 approved					
	WITHSTAND VOLTAGE	I/p-0/P: 3KVAC I/p-FG: 1.5KVAC 0/p-FG: 0.5KVAC					
	ISOLATION RESISTANCE	I/P-0/P, J/P-FG, 0/P-FG: 100M Ohms / 500VDC / 25 °C / 70% RH					
	EMC EMISSION	Compliance to EN55022(CISPR22) Class B, EN61000-3-2, -3					
	EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61000-6-2 (EN50082-2), light industry level, criteria A					
OTHERS	MTBF	≥ 249K hrs. Ml L-H DBK-217F { 25 °C }					
	DIMENSION	99*82*36mm (L*W*H)					

## Mechanical Specification

Case No. 932A Unit:mm

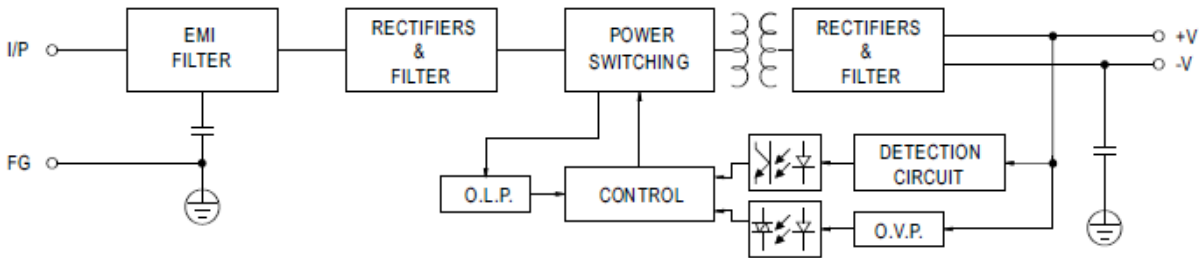


Terminal Pin No. Assignment

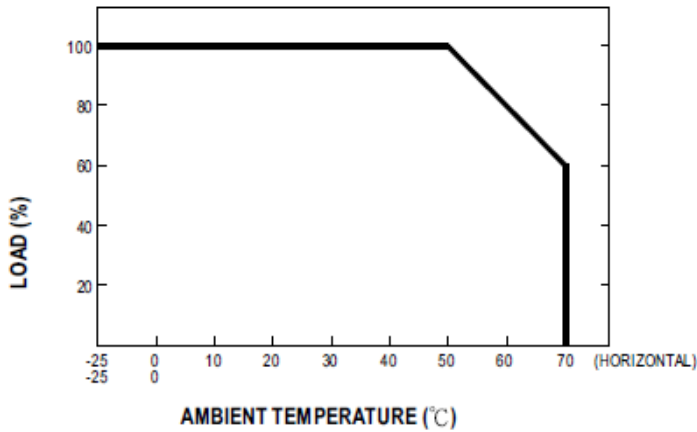
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	FG $\perp$		

## Block Diagram

fosc : 60KHz



## Derating Curve



## Static Characteristics (24V)

