



## ■ Features :

- Universal AC input / Full range(up to 295VAC)
- Built in active PFC compliance to EN61000-3-2 class C
- Constant Voltage design
- High efficiency up to 93%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Half encapsulated
- U-bracket low profile:33mm
- ZVS technology to reduce power dissipation
- Suitable for built-in type LED applications
- 3 years warranty

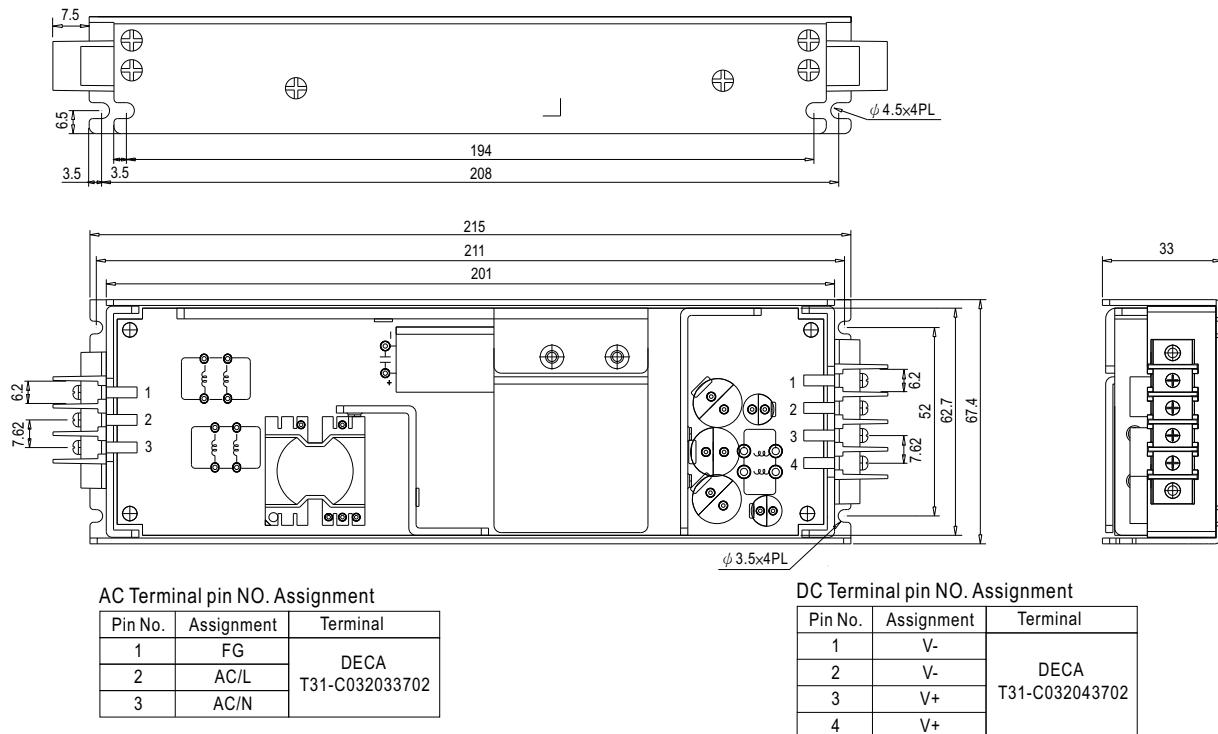


## SPECIFICATION

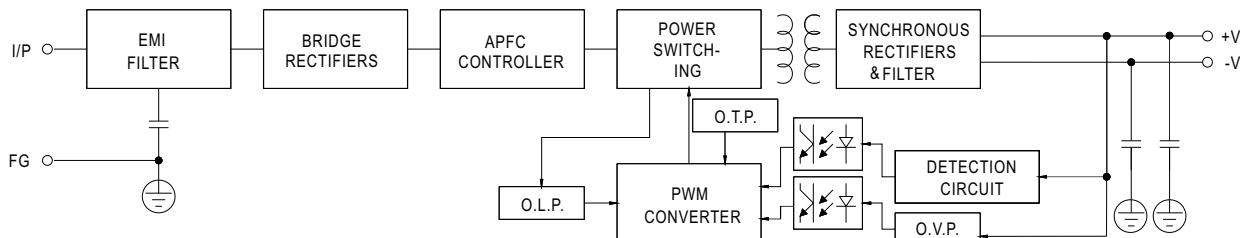
MODEL	ULP-150-12	ULP-150-15	ULP-150-24	ULP-150-36	ULP-150-48
OUTPUT	DC VOLTAGE	12V	15V	24V	36V
	RATED CURRENT	12.5A	10A	6.3A	4.2A
	CURRENT RANGE	0 ~ 12.5A	0 ~ 10A	0 ~ 6.3A	0 ~ 4.2A
	RATED POWER	150W	150W	151.2W	151.2W
	RIPLINE & NOISE (max.) Note.2	100mVp-p	150mVp-p	150mVp-p	250mVp-p
	VOLTAGE ADJ. RANGE	11.0~13.2V	13.5~16.5V	21.6~26.4V	32.4~39.6V
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±2.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME	500ms, 100ms/230VAC	3000ms, 100ms/115VAC at full load		
INPUT	HOLD UP TIME (Typ.)	16ms/230VAC	16ms/115VAC at full load		
	VOLTAGE RANGE Note.4	90 ~ 295VAC	127 ~ 417VDC		
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF>0.98/115VAC	PF>0.96/230VAC	PF>0.94/277VAC at full load	
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading≥60% at 115VAC/230VAC input and output loading≥75% at 277VAC input			
	EFFICIENCY (Typ.)	91.5%	91.5%	93%	93%
	AC CURRENT (Typ.)	2A/115VAC	1A/230VAC	0.7A/277VAC	
	INRUSH CURRENT (Typ.)	COLD START 65A(twidth=460μs measured at 50% Ipeak) at 230VAC			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC			
	LEAKAGE CURRENT	<0.75mA / 277VAC			
PROTECTION	OVERLOAD	130~185% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed			
	SHORT CIRCUIT	Protection type : Hiccup mode, recovers automatically after fault condition is removed			
	OVER VOLTAGE	13.6 ~ 16.3V	17 ~ 21V	26.7 ~ 32.4V	41.4 ~ 48.6V
	OVER TEMPERATURE	Protection type : Shut down o/p voltage with auto-recovery or re-power on to recovery			
ENVIRONMENT	WORKING TEMP.	-30 ~ +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 ~ 60°C)			
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes			
SAFETY & EMC (Note 5)	SAFETY STANDARDS	Design refer to EN61347-2-13, IEC61347-2-13, UL8750			
	WITHSTAND VOLTAGE Note.6	I/P-O/P:3.75KVAC	I/P-FG:2KVAC	O/P-FG:0.5KVAC	
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC/25°C / 70%RH			
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≥60% load), EN61000-3-3			
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge 4KV), criteria A			
OTHERS	MTBF	216.3K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	215*67.4*33mm (L*W*H)			
	PACKING	0.67kg; 24PCS/17.5kg/0.65CUFT			
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltages. Please check the static characteristics for more details. 5. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a> ) 6. Please remove the component D1 before conducted Hipot test. 7. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.				

## ■ Mechanical Specification

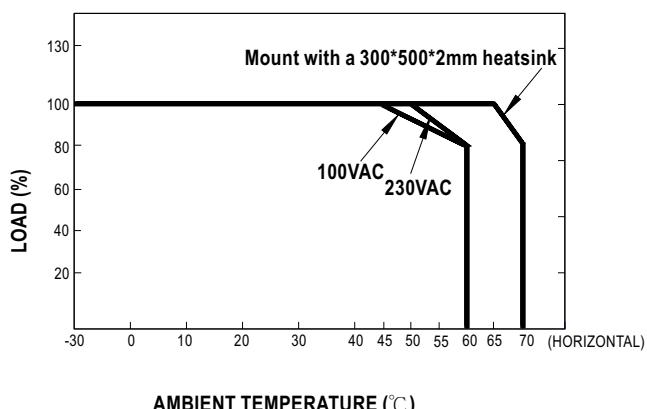
Case No. 988      Unit:mm



## ■ Block Diagram



## ■ Derating Curve



## ■ Static Characteristics

