



■ Features :

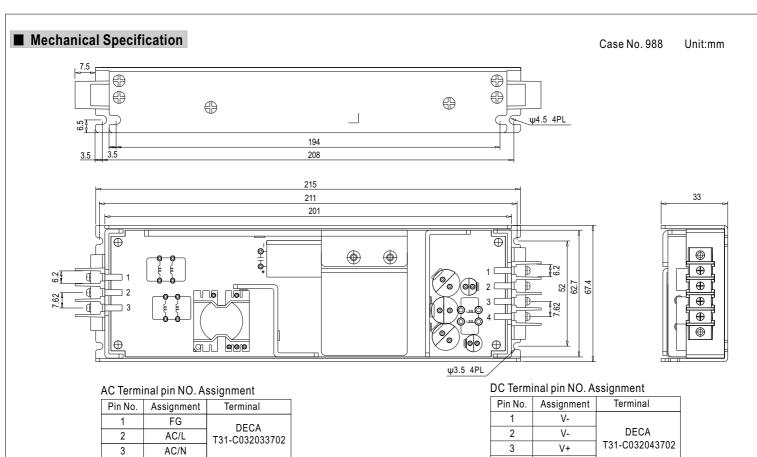
- *Universal AC input / Full range(up to 295VAC)
- *Built in active PFC compliance to EN61000-3-2 class C
- *Constant Voltage design
- 'High efficiency up to 93%
- *Protections: Short circuit / Overload / Over voltage / Over temperature
- *Cooling by free air convection
- 'Half encapsulated
- *U-bracket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



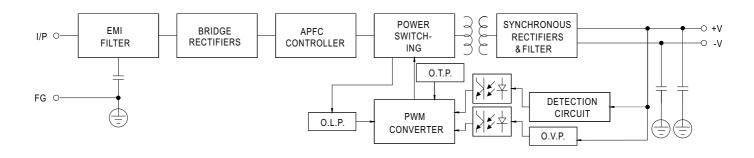
MODEL		ULP-150-12	ULP-150-15	for built-in type LEI ULP-150-24	ULP-150-36	ULP-150-48
ОИТРИТ	DC VOLTAGE	12V	15V *3 years v	varranty 24V	36V	48V
	RATED CURRENT	12.5A	10A	6.3A	4.2A	3.2A
	CURRENT RANGE	0 ~ 12.5A	0 ~ 10A	0 ~ 6.3A	0 ~ 4.2A	0 ~ 3.2A
	RATED POWER	150W	150W	151.2W	151.2W	153.6W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	150mVp-p	150mVp-p	250mVp-p	250mVp-p
	VOLTAGE ADJ. RANGE	11.0~13.2V	13.5~16.5V	21.6~26.4V	32.4~39.6V	43.2~52.8V
	VOLTAGE TOLERANCE Note.3	2.0%	2.0%	2.0%	2.0%	2.0%
	LINE REGULATION	0.5%	0.5%	0.5%	0.5%	0.5%
	LOAD REGULATION	1.0%	1.0%	1.0%	1.0%	1.0%
	SETUP, RISE TIME	2000ms, 100ms/230VAC 3000ms, 100ms/115VAC at full load				
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load				
INPUT		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				
	EFFICIENCY (Typ.)	91.5%	91.5%	93%	93%	93%
	AC CURRENT (Typ.)	2A/115VAC 1A/230VAC 0.7A/277VAC				
	INRUSH CURRENT (Typ.)	Cold start 65A/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	53 ~ 64.8V
		Protection type : Shut do	wn o/p voltage with auto-re	covery or re-power on to	o recovery	
	OVED TEMPERATURE	95°C 5°C(RTH2)				
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down				
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 &	SAFETY STANDARDS	Design refer to EN61347-2-13,IEC61347-2-13,UL8750				
	WITHSTAND VOLTAGE Note.6					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC/25°C/ 70%RH				
		Compliance to EN55015, EN61000-3-2 Class C(≡60% load),EN61000-3-3				
	EMC EMISSION	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, EN55024, light industry level (surge 4KV), criteria A				
EMC Note 5)	EMC EMISSION EMC IMMUNITY	Compliance to EN61000-	-4-2,3,4,5,6,8,11; EN61547	′, EN55024, light industi	ry level (surge 4KV), cri	teria A
		'	-4-2,3,4,5,6,8,11; EN61547 HDBK-217F (25°C)	, EN55024, light indust	ry level (surge 4KV), cri	teria A
	EMC IMMUNITY	'	HDBK-217F (25°C)	, EN55024, light indust	ry level (surge 4KV), cri	teria A

- Tolerance: includes set up tolerance, line regulation and load regulation.
 Derating may be needed under low input voltages. Please check the static characteristics for more details.
 The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets
- 6. Please remove the component D1 before conducted Hipot test.





■ Block Diagram



■ Derating Curve

Mount with a 300*500*2mm heatsink 100 80 100VAC 230VAC -30 0 10 20 30 40 45 50 55 60 65 70 (HORIZONTAL)

AMBIENT TEMPERATURE (°C)

100 90 80 70 60 40 90 100 110 135 155 230 295 INPUT VOLTAGE (V) 60Hz

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■ Static Characteristics