



■ Features :

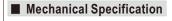
- Universal AC input / Full range(up to 295VAC)
- Built in active PFC function
- Constant Voltage design
- High efficiency up to 93%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- U-bracket low profile:33mm
- ZVS technology to reduce power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

SPECIFICATION

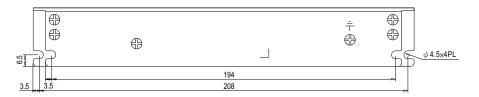


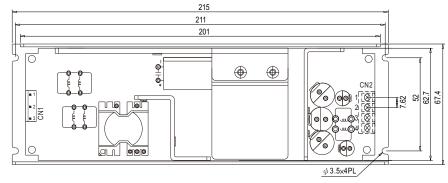
MODEL		USP-150-12	USP-150-15	USP-150-24	USP-150-36	USP-150-48		
	DC VOLTAGE	12V	15V	24V	36V	48V		
OUTPUT	RATED CURRENT	12.5A	10A	6.3A	4.2A	3.2A		
	CURRENT RANGE	0 ~ 12.5A	0 ~ 10A	0 ~ 6.3A	0 ~ 4.2A	0~3.2A		
	RATED POWER	150W	150W	151.2W	151.2W	153.6W		
	RIPPLE & NOISE (max.) Note.2	100mVp-p	150mVp-p	150mVp-p	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						
	VOLTAGE RANGE Note.4							
	FREQUENCY RANGE	47 ~ 63Hz						
INPUT	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/230\	/AC 0.7A/277VAC					
	INRUSH CURRENT (Typ.)	Cold start 65A/230VAC						
	LEAKAGE CURRENT	<2mA / 240VAC						
	OVERLOAD	110~160% rated output power						
	OVERLOAD	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		Protection type : Shut dov	wn o/p voltage with auto-re	covery or re-power on to	recovery			
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down						
ENVIRONMENT	WORKING TEMP	-30 ~ +65°C (Refer to output load derating curve)						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 60°C)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL60950-1 approved; design refer to IEC60950-1,EN60950-1						
SAFETY &	WITHSTAND VOLTAGE Note.6	I/P-O/P:3.0KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:	100M Ohms/500VDC/25°C	/ 70%RH				
(Note 5)	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B,EN61000-3-2,EN61000-3-3						
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024, light industry level (surge 4KV), criteria A						
OTHERS	MTBF	216.3K hrs min. MIL-HDBK-217F (25℃)						
	DIMENSION	215*67.4*33mm (L*W*H)						
	PACKING	0.48kg; 24PCS/12.5kg/0	0.61CUFT					
NOTE	 Ripple & noise are measure Tolerance : includes set up Derating may be needed ur The power supply is consided EMC directives. 	Ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. nder low input voltages. Please check the static characteristics for more details. dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets nent D1 before conducted Hipot test.						
	l				F11 A1	me:USP-150-SPEC 2014		

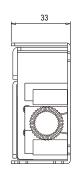




Case No. 988 Unit:mm







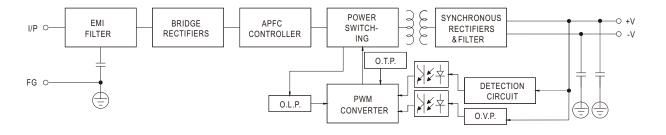
AC Input Connector (CN1):SVH-21T-P1.1 or equivalent

Pin No.	Assignment	Mating Housing	Terminal	
1	FG≟			
2	AC/L	JST VHR or equivalent	JST SVH-21T-P1.1	
3 AC/N		or equivalent	or equivalent	

DC Terminal pin NO. Assignment (CN2)

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Pin No.	Assignment	Terminal
1,2	V-	DECA
3,4	V+	T21-BM10-04

■ Block Diagram



■ Derating Curve

■ Static Characteristics

