



SPECIFICATION



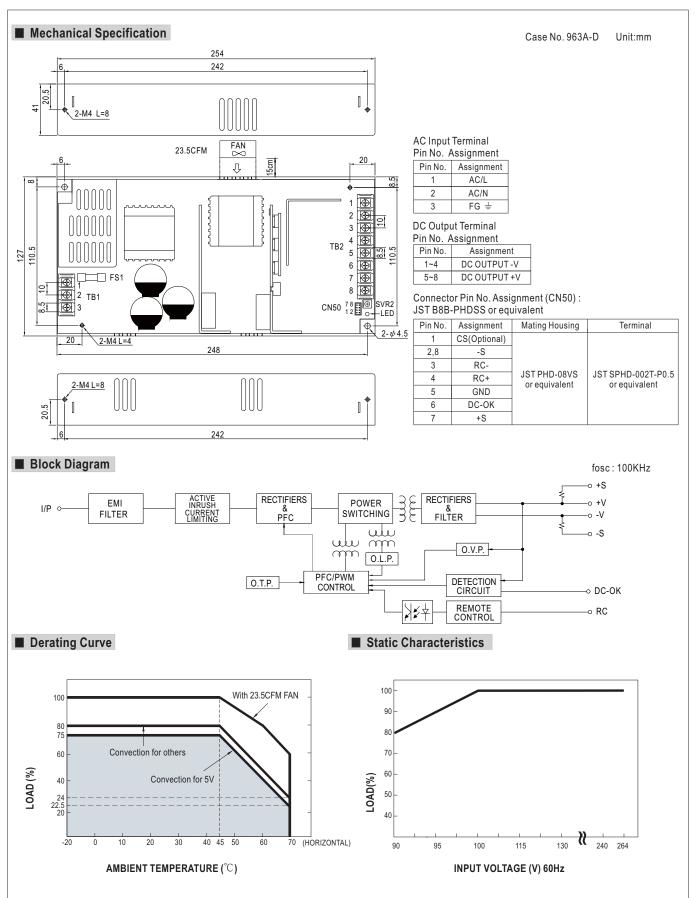
■ Features :

- Universal AC input / Full range
- Built in active PFC circuit compliance to EN61000-3-2
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Free air convection for 400W and 500W with 23.5CFM forced air
- High power density 6.2w/in³
- AC input active surge current limiting
- U-bracket low profile:41mm
- Current sharing(1+1) for 24V and 48V models (Optional)
- Built-in remote ON-OFF control
- Built-in remote sense function
- Built in DC OK active signal
- 3 years warranty

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MODEL		USP-500-5	USP-500-12	USP-500-15	USP-500-24	USP-500-48	
	DC VOLTAGE	5V	12V	15V	24V	48V	
	RATED CURRENT	80A	42A	33.5A	21A	10.5A	
	CURRENT RANGE (convection)	0 ~ 60A	0 ~ 33A	0 ~ 27A	0 ~ 17A	0 ~ 8.5A	
	CURRENT RANGE (23.5CFM FAN)	0 ~ 80A	0~42A	0 ~ 33.5A	0~21A	0 ~ 10.5A	
	RATED POWER (convection)	300W	396W	405W	408W	408W	
	RATED POWER (23.5CFM FAN)		504W	502.5W	504W	504W	
OUTPUT	RIPPLE & NOISE (max.) Note.2		100mVp-p	100mVp-p	150mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	10.8 ~ 13.2V	13.5 ~ 16.5V	21.6 ~ 27V	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	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TIME	1500ms, 80ms/230VAC	3100ms, 80ms/115VA		= 1.070	≥ 1.070	
	HOLD UP TIME (Typ.)		s/115VAC at full load	to at full load			
	(• • • •		370VDC				
			370000				
	FREQUENCY RANGE	47 ~ 63Hz	145)/AC at full 1!				
INDUT	POWER FACTOR (Typ.)		15VAC at full load	000/	000/	000/	
INPUT	EFFICIENCY (Typ.)	85%	90%	90%	89%	90%	
	AC CURRENT (Typ.)	6A/115VAC 2.6A/23					
	INRUSH CURRENT (Typ.)	30A/115VAC 50A/230VAC					
	LEAKAGE CURRENT	<2mA/240VAC					
	OVERLOAD	105 ~ 130% rated output					
	OVERLOAD	Protection type: Constant current limiting, unit will shut down after 3 sec. ,re-power on to recover					
PROTECTION	OVER VOLTAGE	5.7 ~ 7V	13.5 ~ 16V	17 ~ 21V	27.8 ~ 32.4V	53 ~ 64.8V	
	OVER VOLIAGE	Protection type : Shut down o/p voltage, re-power to recover					
	OVER TEMPERATURE	Shut down o/p voltage with auto-recovery					
FUNCTION	REMOTE ON/OFF CONTROL	RC+/RC-: 0~0.8V power on ; 4~10V power off					
1011011011	DC-OK SIGNAL	PSU turn on : 3.3V ~ 5.6\	/; PSU turn off: 0 ~ 1V				
	WORKING TEMP.	-20 ∼ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, EAC TP TC 004 approved					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG	:2KVAC O/P-FG:0.5KV	AC			
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH					
(Note 4)	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, heavy industry level, criteria A, EAC TP TC 020					
	MTBF	129.8K hrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	254*127*41mm (L*W*H)					
	PACKING	1.6Kg; 6pcs/10.6Kg/0.7CUFT					
NOTE	All parameters NOT special Ripple & noise are measure Tolerance : includes set up The power supply is conside a 360mm*360mm metal pla perform these EMC tests, p Derating may be needed ur The ambient temperature de	d at 20MHz of bandwidth tolerance, line regulation ered a component which te with 1mm of thickness lease refer to "EMI testing der low input voltages. P	n by using a 12" twisted p and load regulation. will be installed into a fina. The final equipment must g of component power su lease check the derating	air-wire terminated with a il equipment. All the EMC st be re-confirmed that it s pplies." (as available on hi curve for more details.	0.1uf & 47uf parallel capac tests are been executed b till meets EMC directives. ttp://www.meanwell.com)	by mounting the unit on For guidance on how to	







■ Function Description of CN50

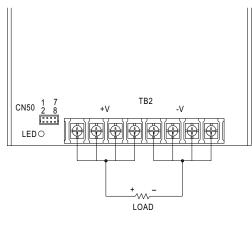
Pin No.	Function	Description
1	CS (Optional)	Current sharing signal. When units are connected in parallel, the CS pins of the units must be connected to allow current balance between units.
2,8		Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.
3	RC-	Return for RC+ signal input.
4	RC+	Turns the output on and off by electrical or dry contact between pin 4 (RC+) and pin 3 (RC-). 0~0.8V: Power ON, 4~10V: Power OFF.
5	GND	This pin connects to the negative terminal (-V). Return for DC_OK signal output.
6	DC-OK	DC-OK signal is a TTL level signal, referenced to pin6(DC-OK GND). High when PSU turns on.
7		Positive sensing. The +S signal should be connected to the positive terminal of the load. The +S and -S leads should be twisted in pair to minimize noise pick-up effect. The maximum line drop compensation is 0.5V.

■ Function Manual

1.Remote Control

The PSU can be turned ON/OFF by using the "Remote Control" function.

Between RC+(pin4) and RC-(pin3)	Output Status
SW OFF (0 ~ 0.8V)	ON
SW ON (4 ~ 10V)	OFF



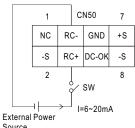
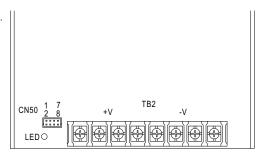


Fig 1.1

2.DC-OK Signal

DC-OK signal is a TTL level signal. High when PSU turns on.

Between DC-OK(pin6) and GND(pin5)	Output Status
3.3 ~ 5.6V	ON
0 ~ 1V	OFF



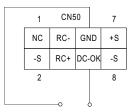


Fig 2.1

+S

-S

8



3.Remote Sense

The remote sensing compensates voltage drop on the load wiring up to 0.5V.

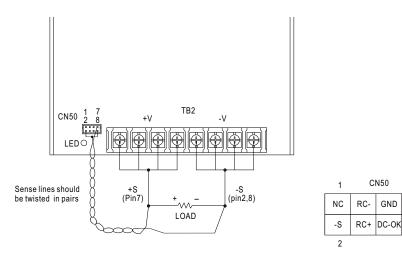
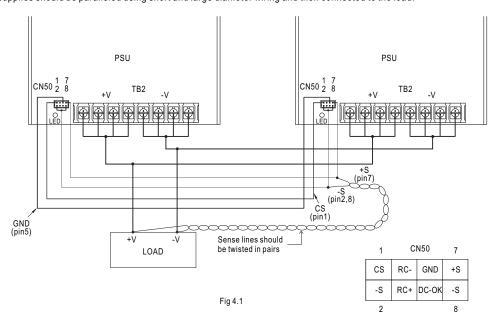


Fig 3.1

4. Current Sharing with Remote Sensing (Optional for 24V & 48V)

USP-500 has the built-in active current sharing function and can be connected in parallel to provide higher output power:

- (1)Parallel operation is available by connecting the units shown as below.
 - (+S,-S,CS and GND are connected mutually in parallel).
- $(2) Difference\ of\ output\ voltages\ among\ parallel\ units\ should\ be\ less\ than\ 2\%.$
- (3) The total output current must not exceed the value determined by the following equation. (output current at parallel operation)=(Rated current per unit) \times (Number of unit) \times 0.9
- (4)In parallel operation 2 units is the maximum, please consult the manufacturer for applications of more connecting in parallel.
- (5) The power supplies should be paralleled using short and large diameter wiring and then connected to the load.



Note: 1.In parallel connection, maybe only one unit (master) operate if the total output load is less than 2% of rated load condition.

The other PSU (slave) may go into standby mode and its output LED and relay will not turn on.

2.2% min. of dummy load is required.

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