

200W Single Output Medical Type

MSP-200 series



Features :

- Universal AC input / Full range
- * Built-in active PFC function, PF>0.95
- High efficiency up to 89%
- Withstand 300VAC surge input for 5 seconds
- * Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- 1U low profile 38mm
- * Medical safety approved (MOOP level)
- Built-in remote ON-OFF control
- Standby 5V@0.3A
- Built-in remote sense function
- No load power consumption<0.5W (Note.6)
- 5 years warranty

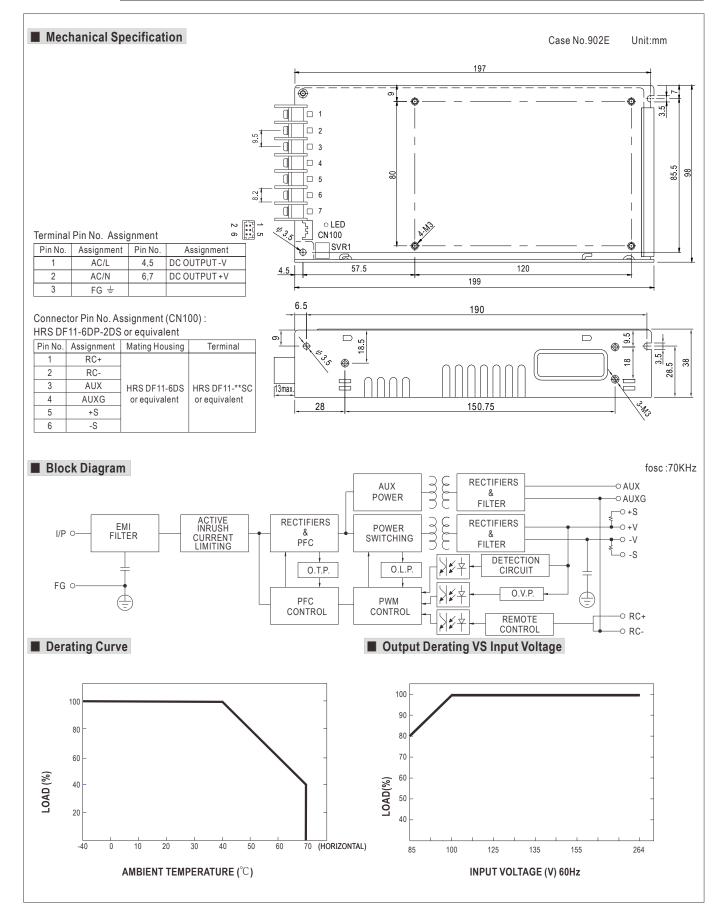


SPECIFICATION

MODEL		MSP-200-3.3	MSP-200-5	MSP-200-7.5	MSP-200-12	MSP-200-15	MSP-200-24	MSP-200-36	MSP-200-48	
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V	
OUTPUT	RATED CURRENT	40A	35A	26.7A	16.7A	13.4A	8.4A	5.7A	4.3A	
	CURRENT RANGE	0~40A	0~35A	0~26.7A	0~16.7A	0~13.4A	0~8.4A	0~5.7A	0~4.3A	
	RATED POWER	132W	175W	200.3W	200.4W	201W	201.6W	205.2W	206.4W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	90mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p	250mVp-p	250mVp-p	
	VOLTAGE ADJ. RANGE	2.8~3.8V	4.3~5.8V	6.8~9V	10.2 ~ 13.8V	13.5 ~ 18V	21.6~28.8V	28.8~39.6V	40.8~55.2V	
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	
	LOAD REGULATION	±1.5%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	1000ms, 50ms/230VAC 2500ms, 50ms/115VAC at full load								
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load								
		85 ~ 264VAC 120 ~ 370VDC								
	FREQUENCY RANGE	47~63Hz								
	POWER FACTOR (Typ.)	PF>0.95/230VAC PF>0.99/115VAC at full load								
INPUT	EFFICIENCY (Typ.)	80%	84%	86%	88%	88%	88%	89%	89%	
INF OT	AC CURRENT (Typ.)	2.2A/115VAC	1.1A/230VA							
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC 70A/230VAC								
	LEAKAGE CURRENT Note.7									
		105 ~ 135% rated output power								
	OVERLOAD	Protection type : Constant current limiting, recovers automatically after fault condition is removed								
PROTECTION	OVER VOLTAGE	3.96 ~ 4.62V	6~7V	9.4 ~ 10.9V	14.4 ~ 16.8V	18.8 ~ 21.8V	30 ~ 34.8V	41.4 ~ 48.6V	57.6~67.2	
ROLOION							00 01.00	11.1 10.01	01.0 01.2	
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover								
	OVER TEMPERATURE Shut down o/p voltage, recovers automatically after temperature goes down 5V STANDBY 5VSB : 5V@0.3A; tolerance ±5%, ripple : 50mVp-p(max.)									
FUNCTION	REMOTE CONTROL									
	WORKING TEMP.	$-40 \sim +70^{\circ}C$ (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH								
ENVIRONMENT	TEMP. COEFFICIENT									
	VIBRATION	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes								
	SAFETY STANDARDS									
	ISOLATION LEVEL	ANSI/AAMI ES60601-1, IEC60601-1 approved								
SAFETY &	WITHSTAND VOLTAGE	Primary-Secondary: 2×MOOP, Primary-Earth: 1×MOOP								
EMC	ISOLATION RESISTANCE									
(Note 4)		I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
	EMC EMISSION	Compliance to EN55011 (CISPR11) Class B, EN61000-3-2,-3								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN60601-1-2								
	MTBF	209.4K hrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	199*98*38mm (L*W*H)								
	PACKING	0.77Kg; 18pcs/	14.9Kg/0.9CUF1							
NOTE	 Ripple & noise are measure Tolerance : includes set up The power supply is consid EMC directives. For guidan (as available on http://www. Derating may be needed up No load power consumption 	rs NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. se are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. ncludes set up tolerance, line regulation and load regulation. upply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets res. For guidance on how to perform these EMC tests, please refer to EMI testing of component power supplies. o n http://www.meanwell.com) y be needed under low input voltages. Please check the derating curve for more details. rer consumption<0.5W when RC+ & RC- (CN100 pin1,2) 0 ~ 8V or short. nt was measured from primary input to DC output.								



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Function Description of CN100

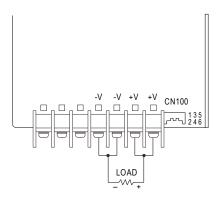
Pin No.	Function	Description
1	RC+	Turns the output on and off by electrical or dry contact between pin 2 (RC-). Short: Power OFF, Open: Power ON.
2	RC-	Remote control ground.
3		Auxiliary voltage output, 4.75~5.25V, reference to pin 4(AUXG). The maximum load current is 0.3A. This output has the built-in oring diodes and is not controlled by the "remote ON/OFF control".
4	AUXG	Auxiliary voltage output ground. The signal return is isolated from the output terminals (+V & -V).
5		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.
6		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.

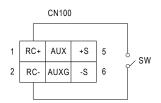
Function Manual

1.Remote Control

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

Between RC-(pin2) and RC+(pin1)	Output Status		
SW ON (Short)	OFF		
SW OFF (Open)	ON		

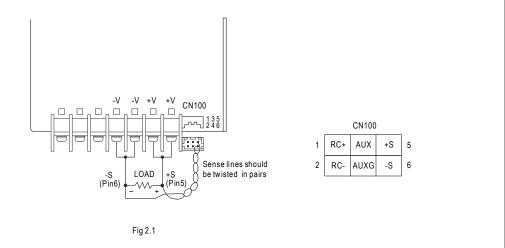






2.Remote Sense

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



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Mean Well:

MSP-200-12 MSP-200-15 MSP-200-24 MSP-200-3.3 MSP-200-36 MSP-200-48 MSP-200-5 MSP-200-7.5