



■ 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)

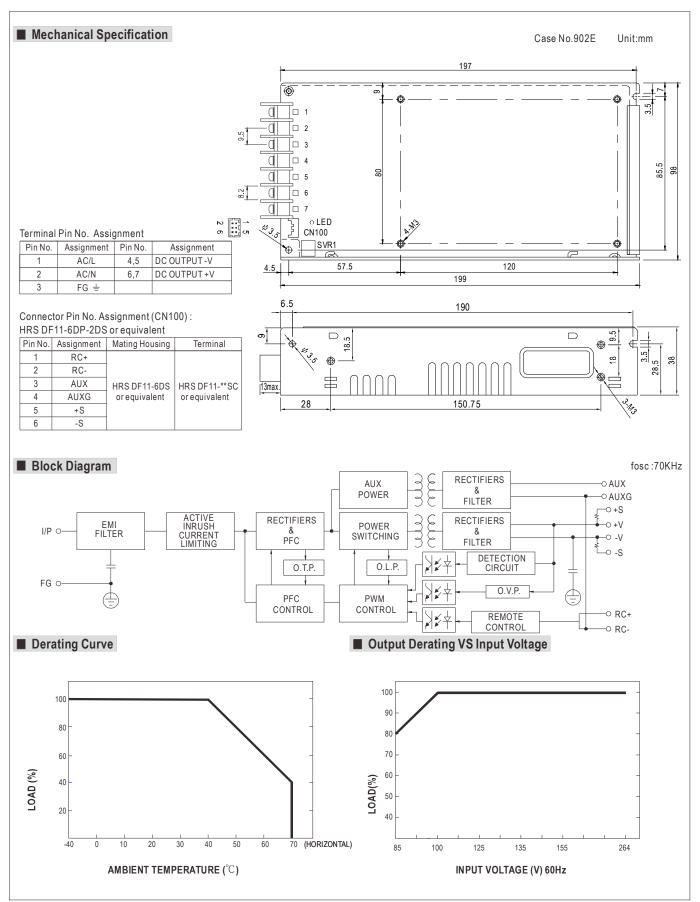
+ (P) c **91** us CB(E

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 | | |
| ОИТРИТ | 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 2 | 2500ms, 50ms/1° | 15VAC at full loa | nd | | | | | |
| | HOLD UP TIME (Typ.) | 16ms/230VAC 16ms/115VAC at full load | | | | | | | | | |
| INPUT | VOLTAGE RANGE Note.5 | 85 ~ 264VAC 120 ~ 370VDC | | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | | |
| | POWER FACTOR (Typ.) | PF>0.95/230V | AC PF>0.9 | 99/115VAC at full | lload | | | | | | |
| | EFFICIENCY (Typ.) | 80% | 84% | 86% | 88% | 88% | 88% | 89% | 89% | | |
| | AC CURRENT (Typ.) | 2.2A/115VAC | 1.1A/230VA | C | | 1 | - | | | | |
| | INRUSH CURRENT (Typ.) | 35A/115VAC 70A/230VAC | | | | | | | | | |
| | LEAKAGE CURRENT Note.7 | | | | | | | | | | |
| PROTECTION | | 105 ~ 135% rated output power | | | | | | | | | |
| | OVERLOAD | Protection type: Constant current limiting, recovers automatically after fault condition is removed | | | | | | | | | |
| | 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 | | |
| | | Protection type | : Shut down o/ | p voltage, re-pov | wer on to recove | er | | ' | | | |
| | OVER TEMPERATURE | Shut down o/p voltage, recovers automatically after temperature goes down | | | | | | | | | |
| FUNCTION | 5V STANDBY | 5VSB: 5V@0.3A; tolerance ± 5%, ripple: 50mVp-p(max.) | | | | | | | | | |
| | REMOTE CONTROL | RC+/RC-: 4~10V or open = power on; 0~0.8V or short = power off | | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | -40 ~ +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 ~ 50°C) | | | | | | | | | |
| | VIBRATION | 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes | | | | | | | | | |
| | SAFETY STANDARDS | ANSI/AAMI ES60601-1, IEC60601-1 approved | | | | | | | | | |
| SAFETY & | | | | | | | | | | | |
| EMC | | | | | | | | | | | |
| (Note 4) | EMC EMISSION | Compliance to EN55011 (CISPR11) Class B, EN61000-3-2,-3 | | | | | | | | | |
| | EMC IMMUNITY | | • | 3,4,5,6,8,11, EN | | | | | | | |
| OTHERS | MTBF | 209.4K hrs mir | n. MIL-HDBK | -217F (25°C) | | | | | | | |
| | DIMENSION | 199*98*38mm | | (- / | | | | | | | |
| | PACKING | | , | Т | | | | | | | |
| NOTE | All parameters NOT specia 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 | 0.77Kg; 18pcs/14.9Kg/0.9CUFT Illy 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. ered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets ce on how to perform these EMC tests, please refer to EMI testing of component power supplies. .meanwell.com) nder low input voltages. Please check the derating curve for more details. n<0.5W when RC+ & RC- (CN100 pin1,2) 0 ~ 8V or short. | | | | | | | | | |

- 7. Touch current was measured from primary input to DC output.







■ Function Description of CN100

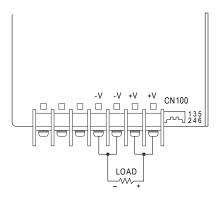
| Pin No. | Function | Description | | | | |
|---------|----------|---|--|--|--|--|
| 1 | RC+ | Turns the output on and off by electrical or dry contact between pin 2 (RC-). Short: Power OFF, Open: Power ON. | | | | |
| 2 | RC- | Remote control ground. | | | | |
| 3 | | Auxiliary voltage output, 4.75~5.25V, 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 $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) =\frac{1}{2}\left$

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



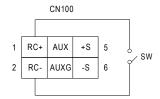


Fig 1.1

2.Remote Sense

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

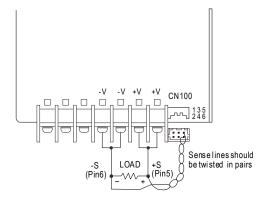




Fig 2.1

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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