**SPECIFICATION** 

#### 200W Industrial 1U ATX 12V/P4 PC Power Supply



#### Features:

- Meet 1U rack mount system
- Universal AC input / Full range
- Active power factor ≥94%
- Protections:Short circuit/Overload/Over voltage
- Forced air cooling by built-in DC fan
- · With power good and fail signal output
- Built-in remote ON-OFF control
- Remote DC sense +5V and +3.3V
- With +5VSB:0 ~ 2.0A max.
- 100% full load burn-in test
- High efficiency
- 2 years warranty



	IPC-200						
OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH5	STANDBY	
DC VOLTAGE	3.3V	5V	12V	-5V	-12V	5VSB	
RATED CURRENT	15A	25A	13A	0.5A	1A	2A	
CURRENT RANGE						0 ~ 2A	
RATED POWER	(The -5 & -12Volt combine total output shall not exceed 12W)						
RIPPLE & NOISE (max.) Note.2	`	<del></del>		100mVp-p	120mVp-p	50mVp-p	
VOLTAGE ADJ. RANGE	CH2:5.05~5.5V						
VOLTAGE TOLERANCE Note.3	CH1:±5.0%	±5.0%	±7.0%	±8.0%	±10%	±5.0%	
		±1.0%	±1.0%	±2.0%	±2.0%	±1.0%	
LOAD REGULATION						±5.0%	
	800ms, 20ms/230VAC 2500ms, 20ms/115VAC at full load						
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, , ,							
, , , ,							
OVER LOAD							
PROTECTION OVER VOLTAGE SHORT CIRCUIT	+3.3V, +5V: 110% ~ 140% of rated voltage; +12V:13.2V ~ 16V						
	Protection type: Shut down o/p voltage, re-power on to recover						
	All output equipped with short circuit						
POWER GOOD SIGNAL							
	The TTL compatible signal will go down at least 1ms before +5V below 4.75V						
	Power off: PS-ON = "Hi" or ">2V"; Power on: PS-ON = "Low" or "<0.5V"						
WORKING HUMIDITY	20 ~ 90% RH non-condensing						
STORAGE TEMP., HUMIDITY	-40 ~ +85°C 10 ~ 95% RH						
TEMP. COEFFICIENT	±0.05% / ℃ (0 ~ 50℃)						
VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes						
SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved						
WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC						
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:50M Ohms/500VDC						
EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B, Design refer to FCC part 15 Class B						
HARMONIC CURRENT	Compliance to EN61000-3-2,-3						
	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A						
EMS IMMUNITY	Compilation to En	94.1K hrs min. MIL-HDBK-217F (25°C)					
EMS IMMUNITY MTBF		MIL-HDBK-217F (2	5℃)				
MTBF	94.1K hrs min.	,	5°C) 2V power connector*	1ea			
	94.1K hrs min. ATX main power	connector * 1ea; +1	,				
MTBF	94.1K hrs min. ATX main power Peripheral power	connector * 1ea; +1	2V power connector *				
MTBF CONNECTOR	94.1K hrs min. ATX main power Peripheral power	connector * 1ea; +1: connector * 3ea; Fl tion by 4cm DC fan	2V power connector *				
	DC VOLTAGE RATED CURRENT CURRENT RANGE RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD TIME (Typ.) VOLTAGE RANGE FREQUENCY RANGE EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT (max.) OVER LOAD OVER VOLTAGE SHORT CIRCUIT POWER GOOD SIGNAL POWER FAIL SIGNAL PS-ON INPUT SIGNAL WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE	OUTPUT NUMBER DC VOLTAGE 3.3V  RATED CURRENT CURRENT RANGE  RATED POWER RATED POWER RIPPLE & NOISE (max.) Note.2 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION LOAD REGULATION LOAD REGULATION EFFICIENCY (Typ.) CULTAGE RANGE FREQUENCY RANGE FREQUENCY RANGE FREQUENCY (Typ.) AC CURRENT (Typ.)  AC CURRENT (Typ.)  OVER LOAD  OVER LOAD  OVER VOLTAGE SHORT CIRCUIT  POWER GOOD SIGNAL POWER FAIL SIGNAL POWER FAIL SIGNAL POWER FAIL SIGNAL POWER HOM STORAGE TIME WORKING TEMP. VOLTAGE TIME POWER GOOD SIGNAL POWER FAIL SIGNAL POWER FAIL SIGNAL POWER FAIL SIGNAL POWER GOOD SIGNAL POWER FAIL SIGNAL POWE	DUTPUT NUMBER   CH1	OUTPUT NUMBER         CH1         CH2         CH3           DC VOLTAGE         3.3V         5V         12V           RATED CURRENT         15A         25A         13A           CURRENT RANGE         0 ~ 15A         1 ~ 25A         1 ~ 13A           RATED POWER         200W continue. Combine power max.:+5V,+3.3V,+12V output shall not exceed 12W)           RIPPLE & NOISE (max.) Note.2         50mVp-p         50mVp-p         120mVp-p           VOLTAGE ADJ. RANGE         CH2: 5.05 ~ 5.5V         25.0%         ±7.0%           VOLTAGE TOLERANCE Note.3         CH1:±5.0%         ±5.0%         ±7.0%           LINE REGULATION         ±1.0%         ±1.0%         ±1.0%           LOAD REGULATION         ±5.0%         ±7.0%           SETUP, RISE TIME         800ms, 20ms/230VAC         2500ms, 20ms/115VAC at full           HOLD TIME (Typ.)         16ms/230VAC         16ms/115VAC at full           VOLTAGE RANGE         47 ~ 63Hz           EFFICIENCY (Typ.)         75%           AC CURRENT (Typ.)         3.5A/115VAC         1.7A/230VAC           INRUSH CURRENT (Typ.)         40A/115VAC         80A/230VAC           LEAKAGE CURRENT (max.)         3mA/240VAC           OVER VOLTAGE         410 out 10 out 10 out 10 out 10 out 10 ou	OUTPUT NUMBER         CH1         CH2         CH3         CH4           DC VOLTAGE         3.3V         5V         12V         -5V           RATED CURRENT         15A         25A         13A         0.5A           CURRENT RANGE         0 ~ 15A         1 ~ 25A         1 ~ 13A         0 ~ 0.5A           RATED POWER         200W continue. Combine power max.; +5V, +3.3V, +12V output shall not exceed 180W max. (The-title for the second 180W max.) Note. 2         200W continue. Combine power max.; +5V, +3.3V, +12V output shall not exceed 180W max. (The-title for the second 180W max.) Note. 2         200W continue. Combine power max.; +5V, +3.3V, +12V output shall not exceed 180W max. (The-title for the second 180W max.) Note. 2         200W continue. Combine power max.; +5V, +3.3V, +12V output shall not exceed 180W max. (The-title for the second 180W max.) Note. 2         200W continue. Combine power max.; +5V, +3.3V, +12V output shall not exceed 180W max. (The-title for the second 190W max.) The second 190W max. (The-title for the second 190W max.) The second 190W max. (The-title for the second 190W max.) The second 190W max. (The second 190W max. (The second 190W max.) The second 190W m	OUTPUT NUMBER   CH1	

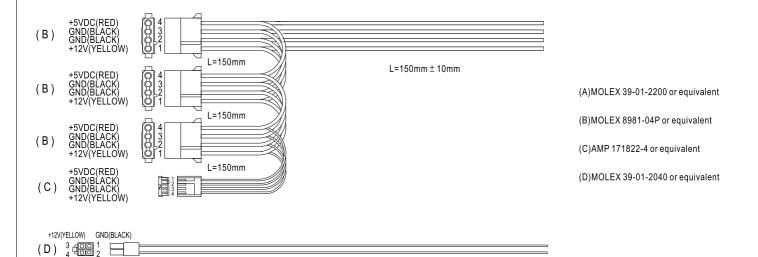
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Load regulation is measured from 20% to 100% max. Load.

ver supply is considered a component which w



+12V(YELLOW) GND(BLACK)

# ■ Mechanical Specification Case No. IPC-250 Unit:mm 40 19.5 SVR 🔾 Air flow direction 83 (G) 2-M3 240 PIN11 +3.3V(ORANGE) +3.3V(ORANGE) GND(BLACK) +5V(RED) +3.3V(ORANGE) -12V(BLUE) GREEN(PS-ON) GND(BLACK) +5V(RED) GND(BLACK) (A) (WIRE OUTPUT OF PCB, 18AWG) GND(BLACK) GND(BLACK) PG(GRAY) +5VSB(PURPLE) -5V(WHITE) +5V(RED) +12V(YELLOW) +5V(RED) PIN10 PIN20 L=450mm ± 10mm

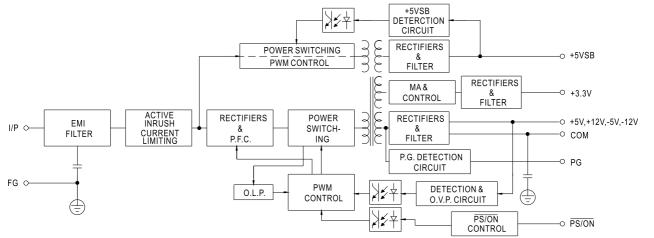


 $L=440mm \pm 10mm$ 



### **■** Block Diagram

fosc: 100KHz



#### ■ Derating Curve

## ■ Output Derating VS Input Voltage

