

## 300W Industrial 1U ATX 12V/P4 PC Power Supply

# IPC-300A



Features :

- Meet 1U rack mount system
- Universal AC input / Full range
- Active power factor  $\geq\!94\%$
- 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



#### SPECIFICATION

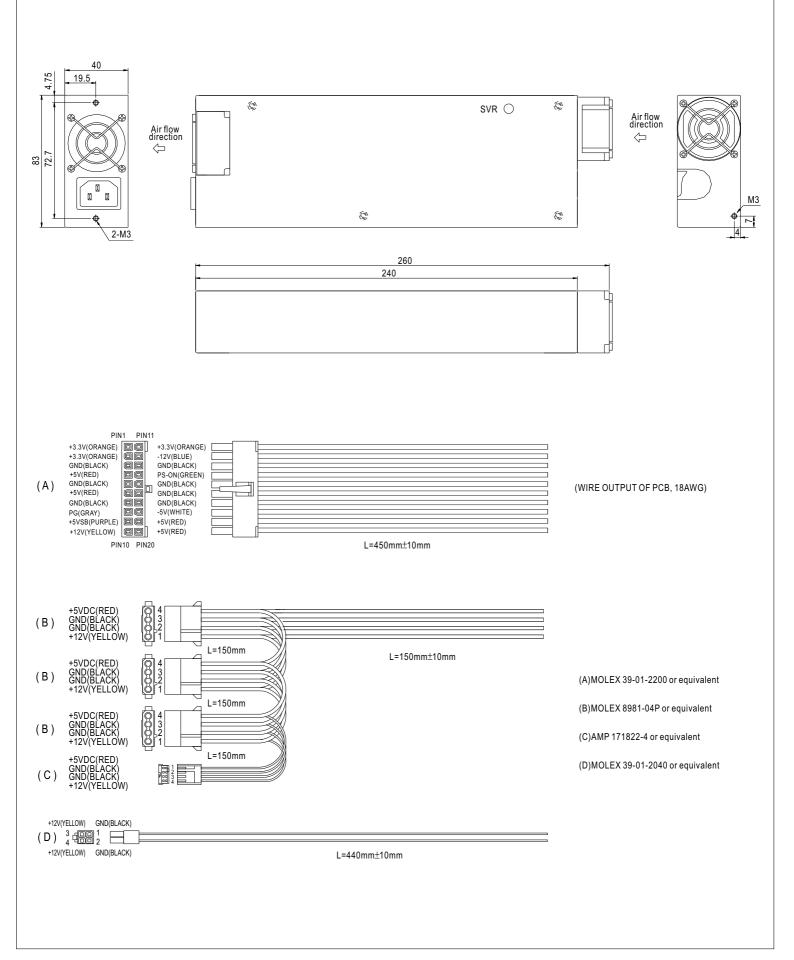
MODEL		IPC-300A									
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH5	STANDBY				
OUTPUT	DC VOLTAGE	3.3V	5V	12V	-5V	-12V	5VSB				
	RATED CURRENT	20A	30A	18A	0.5A	1A	2A				
	CURRENT RANGE	0~20A	1~30A	1 ~ 18A	0~0.5A	0.1~1A	0~2A				
	RATED POWER	300W continue. +5V,+3.3V,+12V combine total power output shall not exceed 270W.(The +5 & +3.3Volt combine total output (The -5 & -12Volt combine total output shall not exceed 12W)									
	RIPPLE & NOISE (max.) Note.2		50mVp-p	120mVp-p	100mVp-p	120mVp-p	50mVp-p				
001F01	VOLTAGE ADJ. RANGE	CH2 : 5.05 ~ 5.5V									
	VOLTAGE ADJ. RANGE		±5.0%	±7.0%	±8.0%	±10%	±5.0%				
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±2.0%	±2.0%	±1.0%				
	LOAD REGULATION	±5.0%	±5.0%	±7.0%	±8.0%	±10%	±5.0%				
	SETUP, RISE TIME	800ms, 20ms/230VA				10 /0	1.0.070				
		800ms, 20ms/230VAC         2500ms, 20ms/115VAC at full load           16ms/230VAC         16ms/115VAC at full load									
	HOLD TIME (Typ.)										
	VOLTAGE RANGE	90~264VAC									
		47 ~ 63Hz									
INPUT	EFFICIENCY (Typ.)	75%									
	AC CURRENT (Typ.)	4.6A/115VAC 2.3A/230VAC									
	INRUSH CURRENT (Typ.)	40A/115VAC 80A/230VAC									
	LEAKAGE CURRENT(max.)		3mA/240VAC								
	OVER LOAD	105 ~ 150% rated output power									
		Protection type : Shut down o/p voltage, re-power on to recover									
PROTECTION	OVER VOLTAGE	+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									
	SHORT CIRCUIT	Protection type : Shut down o/p voltage, re-power on to recover									
	POWER GOOD SIGNAL	The TTL compatible signal out with 100ms to 500ms delay after power set up									
	POWER FAIL SIGNAL	The TTL compatible signal out with rooms to sooms delay after power set up The TTL compatible signal will go down at least 1ms before +5V below 4.75V									
	PS-ON INPUT SIGNAL	Power off: PS-ON = "Hi" or ">2V" ; Power on: PS-ON = "Low" or "<0.5V"									
ENVIRONMENT	WORKING TEMP.	$-10 \sim +60^{\circ}$ (Refer to "Derating Curve")									
	STORAGE TEMP., HUMIDITY	20 ~ 90% RH non-condensing -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								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC									
EMC ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:50M Ohms / 500VDC / 25°C / 70% RH											
(Note 4)	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, Design refer to FCC part 15 Class B, EN61000-3-2,-3									
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4, 5,6,8,11, light industry level, criteria A									
OTHERS	MTBF	94.1K hrs min. MIL-HDBK-217F (25°C)									
	CONNECTOR	ATX main power connector * 1ea; +12V power connector * 1ea									
		Peripheral power connector * 3ea; Floppy drive power connector * 1ea									
	COOLING	Forced air ventilation by 4cm DC fan									
	DIMENSION	260*83*40mm (L*W*H)									
	PACKING	1.46Kg; 10pcs/15.6Kg/0.89CUFT									
NOTE	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.     4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets     EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."     (as available on http://www.meanwell.com)     5. Derating may be needed under low input voltages. Please check the derating curve for more details.										



# IPC-300A

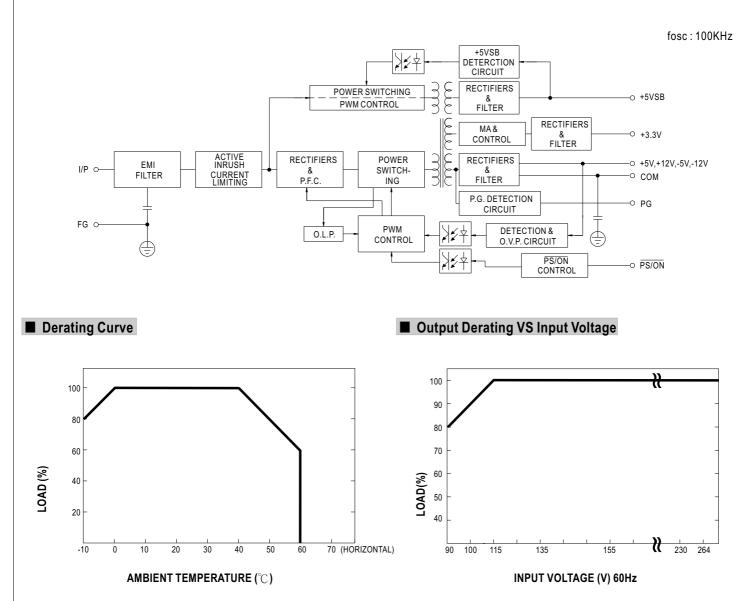
#### Mechanical Specification

Case No. IPC-250 Unit:mm





#### Block Diagram





### 300W Industrial 1U ATX 12V/P4 PC Power Supply

## IPC-300B



Features :

- Meet 1U rack mount system
- Universal AC input / Full range
- Active power factor  $\geq\!94\%$
- 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 +24V
- 24V/3A output an peak 7A for 30sec.(max.)
- With +5VSB:0 ~ 2.0A max.
- 100% full load burn-in test
- High efficiency
- 2 years warranty



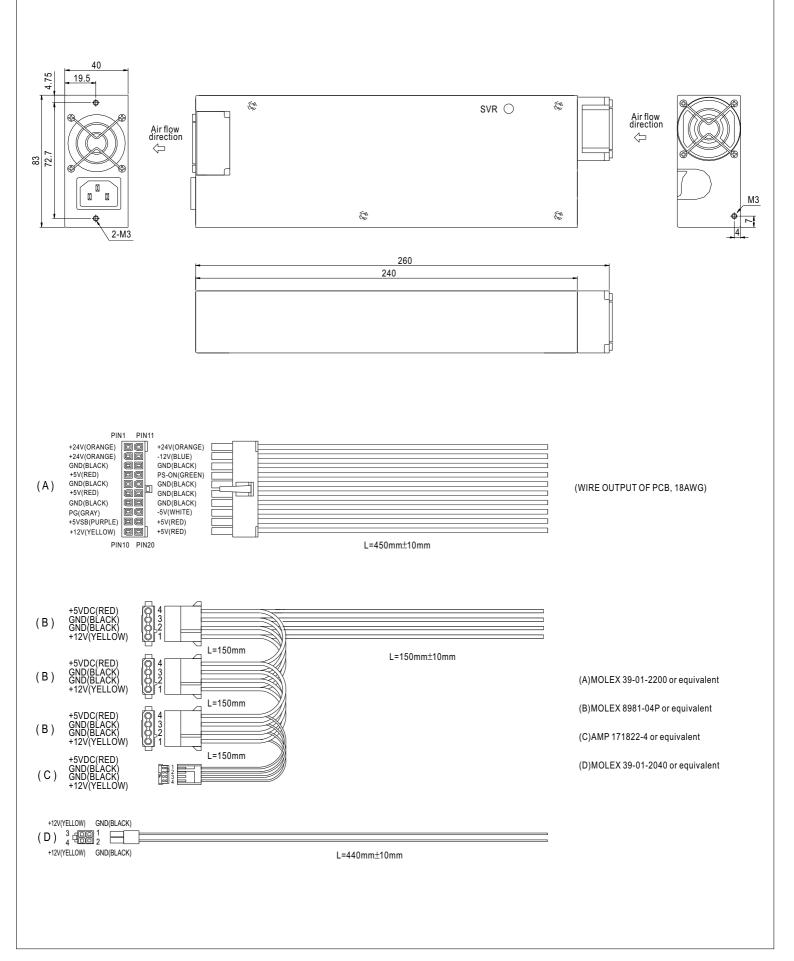
#### SPECIFICATION

MODEL		IPC-300									
	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH5	STANDBY				
	DC VOLTAGE	24V	5V	12V	-5V	-12V	5VSB				
	RATED CURRENT	3A	30A	18A	0.5A	1A	2A				
	CURRENT RANGE	0~7A	1~30A	1 ~ 18A	0~0.5A	0.1 ~ 1A	0~2A				
		300W continue. +24V,+5V,+12V combine total power output shall not exceed 270W.(The +24 & +5Volt combine total output shall not exceed 150W)									
	RATED POWER	(The -5 & -12Volt combine total output shall not exceed 12W)									
OUTPUT	RIPPLE & NOISE (max.) Note.2	240mVp-p	50mVp-p	120mVp-p	100mVp-p	120mVp-p	50mVp-p				
	VOLTAGE ADJ. RANGE	CH2 : 5.05 ~ 5.5V									
	VOLTAGE TOLERANCE Note.3	±5.0%	±5.0%	±7.0%	±8.0%	±10%	±5.0%				
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±2.0%	±2.0%	±1.0%				
	LOAD REGULATION	±5.0%	±5.0%	±7.0%	±8.0%	±10%	±5.0%				
	SETUP, RISE TIME	800ms, 20ms/230VAC 2500ms, 20ms/115VAC at full load									
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load									
INPUT	VOLTAGE RANGE	90~264VAC									
	FREQUENCY RANGE	47 ~ 63Hz									
	EFFICIENCY (Typ.)	80%									
	AC CURRENT (Typ.)	4.6A/115VAC 2.3A/230VAC									
	INRUSH CURRENT (Typ.)	40A/115VAC 80A/230VAC									
	LEAKAGE CURRENT(max.)	3mA/240VAC									
	OVERLOAD	105 ~ 150% rated output power									
		Protection type : Shut down o/p voltage, re-power on to recover									
	OVER VOLTAGE	+24V, +5V: 110% ~ 140% of rated voltage ; +12V:13.2V ~ 16V									
PROTECTION		Protection type : Shut down o/p voltage, re-power on to recover									
		All output equipped with short circuit									
	SHORT CIRCUIT	Protection type : Shut down o/p voltage, re-power on to recover									
FUNCTION	POWER GOOD SIGNAL	The TTL compatible signal out with 100ms to 500ms delay after power set up									
	POWER FAIL SIGNAL	The TTL compatible signal will go down at least 1ms before +5V below 4.75V									
	PS-ON INPUT SIGNAL	Power off: PS-ON = "Hi" or ">2V" ; Power on: PS-ON = "Low" or "<0.5V"									
	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.05% / °C (0 ~ 50°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes									
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC									
EMC (Note 4)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:50M Ohms / 500VDC / 25°C / 70% RH									
	EMC EMISSION		Compliance to EN55022 (CISPR22) Class B, Design refer to FCC part 15 Class B, EN61000-3-2,-3 Compliance to EN61000-4-2,3,4, 5,6,8,11, light industry level, criteria A								
				light industry level, c	riteria A						
	MTBF	94.1K hrs min. MIL-HDBK-217F (25℃)									
	CONNECTOR	ATX main power connector * 1ea; +12V power connector * 1ea									
OTHERS		Peripheral power connector * 3 ea; Floppy drive power connector * 1 ea									
	COOLING	Forced air ventilation by 4cm DC fan									
	DIMENSION	260*83*40mm (L*W*	,								
	PACKING	1.46Kg; 10pcs/15.6K	0								
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Load regulation is measured from 20% to 100% max. Load.</li> <li>The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)</li> <li>Derating may be needed under low input voltages. Please check the derating curve for more details.</li> </ol>										



#### Mechanical Specification

Case No. IPC-250 Unit:mm





#### Block Diagram

