

TIPC500G

FEATURES

- Meet Intel ATX V3.1
- Meet 80 Plus Gold
- Certified IEC 62368-1 3rd
- High Reliability
- Over Current Protection
- Over Temperature Protection
- Over Voltage Protection

SAFETY STANDARD APPROVAL



DESCRIPTION

TIPC500G is an industrial level of switching power supply. This power is designed to meet newest Intel ATX 3.1 stand-ard, and high efficiency. Therefore, it is suitable for applications in “Industrial 4U or tower chassis” equipment.

GENERAL SPECIFICATIONS

Input power at power off: < 0.5W (5Vsb)
 Operating altitude: 5,000 meters
 MTBF: ≥ 100,000Hrs, full load at 25°C
 Efficiency (115Vac input): 87%; 90%; 87% at 100%; 50%; 20% load

INPUT SPECIFICATIONS

Input voltage: 90-264 VAC
 Input frequency: 47-63 Hz
 Input current: 115Vac / 8.0A, 230Vac / 4.0A

ENVIRONMENTAL SPECIFICATIONS

Operating temperature: 0~50°C
 Storage temperature: -20~+80°C
 Operating humidity: 10~85% RH non-condensing
 Storage humidity: 10~95% RH non-condensing

OUTPUT SPECIFICATIONS

Max. output power: 500W
 Hold-up time: 115V / 60Hz: 17m Sec. minimum
 230V / 50Hz: 17m Sec. minimum
 Rise time: 115V-rms or 230V-rms
 +5Vdc: 20ms maximum
 +3.3Vdc: 20ms maximum
 +12Vdc: 20ms maximum
 -12Vdc: 20ms maximum

Protection:

Over voltage: +3.3Vdc: 3.76V~4.3V
 +5Vdc: 5.74V~7.0V
 +12Vdc: 13.4V~15.6V
 Over current: +5Vdc: 30A~50A
 +3.3dc: 30A~50A
 Short circuit: Shutdown & latch off without damage PSU

OUTPUT RATING CHART:

Outputs	+3.3V	+5V	+12V	+12V	+5Vsb
Max. current	19.0A	16.0A	41.6A	0.3A	3.0A
Min. current	0.0A	0.0A	0.0A	0.0A	0.0A
Regulation	± 5%	± 5%	± 5%	± 10%	± 5%
Ripple/Noise	50mV	50mV	120mV	120mV	50mV

MECHANICAL & AC CONNECTOR SPECIFICATIONS

Unit: mm

REF. ID.	PIN NO.	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	CABLE LENGTH
P1	1	+3.3VDC	ORANGE	18	MOLEX 39-01-2240 or EQUIV.	350±15mm
	2	+3.3VDC	ORANGE	18		
	3	COM	BLACK	18		
	4	+5VDC	RED	18		
	5	COM	BLACK	18		
	6	+5VDC	RED	18		
	7	COM	BLACK	18		
	8	PW-OK	GRAY	22		
	9	+5Vsb	PURPLE	18		
	10	+12V	YELLOW	18		
	11	+12V	YELLOW	18		
	12	+3.3VDC	ORANGE	18		
	13	+3.3VDC	ORANGE	18		
	14	+3.3V _{Sense}	BROWN	22		
	15	-12VDC	BLUE	22		
	16	COM	BLACK	18		
	17	PS-ON	GREEN	22		
	18	COM	BLACK	18		
	19	COM	BLACK	18		
	20	COM	BLACK	18		
	21	+5VDC	RED	18		
	22	+5VDC	RED	18		
	23	+5VDC	RED	18		
	24	COM	BLACK	18		
P2	1	COM	BLACK	18	MOLEX 39-01-2080 or EQUIV.	350±15mm
P3	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	COM	BLACK	18		
PA	5	+12V	YELLOW	18	AMP 1-480424-0 or EQUIV.	350±15mm
	6	+12V	YELLOW	18		
	7	+12V	YELLOW	18		
	8	+12V	YELLOW	18		
PB	1	+12V	YELLOW	18	AMP 1-480424-0 or EQUIV.	155±10mm
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5V	RED	18		
PD	1	+5V	RED	22	AMP 171822-4 or EQUIV.	155±10mm
	2	COM	BLACK	22		
	3	COM	BLACK	22		
	4	+12V	YELLOW	22		
PF	1	+3.3VDC	ORANGE	18	MOLEX SD-67926-0011 or EQUIV.	350±15mm
	2	COM	BLACK	18		
	3	+5V	RED	18		
	4	COM	BLACK	18		
PG	5	+12V	YELLOW	18	MOLEX SD-67582-001 or EQUIV.	155±10mm
	1	+3.3VDC	ORANGE	18		
	2	COM	BLACK	18		
	3	+5V	RED	18		
	4	COM	BLACK	18		
	5	+12V	YELLOW	18		

