AIPUPOWER

SIP20 series

20W single output Industrial DIN RAIL





Features:

- Universal AC input 85~264VAC
- Protections: Short circuit / Overload / Over voltage
- Can be installed on DIN rail TS-35/7.5 or 15
- The body width is only 17.5mm
- No load consumption<0.5W</p>
- Isolation class II
- LED indicator for power on
- High reliability
- 3 years warranty

CE EN 62368-1

• Compliance to IEC/EN/UL 62368-1

Specification

Specification							
MODEL		SIP20-5	SIP20-12	SIP20-24	SIP20-48		
INPUT	VOLTAGE RANGE	85~264VAC 120~370VDC (Refer to "Static characteristics")					
	FREQUENCY RANGE	47~63Hz					
	EFFICIENCY(Typ.)	80%	85%	86%	87%		
	AC CURRENT(Typ.)	0.5A/115VAC 0.3A/230VAC					
	INRUSH CURRENT(Typ.)	25A/115VAC 45A/230VAC (cold start)					
OUTPUT	DC VOLTAGE	5V	12V	24V	48V		
	RATED CURRENT	2.5A	1.5A	0.84A	0.42A		
	CURRENT RANGE	0~2.5A	0~1.5A	0~0.84A	0~0.42A		
	RATED POWER	12.5W	18W	20.16W	20.16W		
	RIPPLE&NOISE (max.)	80mVp-p	100mVp–p	100mVp-p	100mVp–p		
	VOLTAGE ADJ.RANGE	5~5.5V	10.8~13.8V	21.6~28.8V	43.2~57.6V		
	VOLTAGE TOLERANCE	±2%	±1%	±1%	±1%		
	LINE REGULATION	±1%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±1%	±1%	±1%	±1%		
	SETUP, RISE TIME	500ms,50ms/230VAC 500ms,50ms/115VAC					
	HOLD UP TIME(Typ.)	30ms/230VAC 12ms/115VAC					
PROTECTION	OVER LOAD	110%~160% rated output power					
		Protection type: hiccup mode, recovers automatically after fault condition removed					
	OVER VOLTAGE	5.75~6.75V	14.2~15.8V	30~36V	58.9~66V		
		Protection type: Clamping by zener diode					
ENVIRONIMENT	WORKING TEMP.,HUMIDITY	$-30 \sim +70^\circ C$ (Refer to "Derating curve") , 20 $\sim 90\% RH$ non-condensing					
	STORAGE TEMP.,HUMIDITY	-40~+85℃, 10~95%RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)					
	VIBRATION	10~500Hz, 2G 10min./1 cycle, each along X、Y、Z axes					

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	Safety standards	Refer to UL62368-1,TUV EN62368-1,CCC GB4943.1				
Safety and electromagnetic compatibility	Withstand voltage and isolation resistance	I/P–O/P: 4KVac ; 100MΩ / 500Vdc / 25℃ / 70%RH				
	Electromagnetic	Parameter	Standard	Test Level / Note		
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1	Class B		
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1	Class B		
		Harmonic current	BS EN/EN61000-3-2,GB17625.1	Class A		
		Voltage flicker	BS EN/EN61000-3-3			
		BS EN/EN55035				
	Electromagnetic compatibility immunity	Parameter	Standard	Test Level /Note		
		ESD	BS EN/EN61000-4-2	Level 4, 8KV air, Level 2, 4KV contact, criteria A		
		RF field susceptibility	BS EN/EN61000-4-3	Level 3, criteria A		
		EFT bursts	BS EN/EN61000-4-4	Level 3, criteria A		
		Surge susceptibility	BS EN/EN61000-4-5	Level 3, 1KV/L-N criteria A		
		Conducted susceptibility	BS EN/EN61000-4-6	Level 3, criteria A		
		Magnetic field immunity	BS EN/EN61000-4-8	Level 4, criteria A		
		Voltage dips and interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods , >95% interruptions 250 periods		
OTHERS	MTBF	≥1000Khrs MIL-HDBK-217F(25°C)				
	DIMENSION	17.5*90*54.5mm(W*H*D)				
	PACKING	0.08Kg; 180pcs/ 15.4Kg/ 1.1CUFT				
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Line regulation is measured from low line to high line at rated load. Load regulation is measured from 0% to 100% rated load Length of set up time is measured at cold first start, Turning ON/OFF the power supply very quickly may lead to increase of the set up time. The ambient temperature derating of 5°C/1000m is needed for operating altitude great than 2000m(6500ft). The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the un on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. Installation clearances:40mm on top,20mm on the bottom,5mm on the left and right side are recommended when loaded permanently with full power in case the adjacent device is a heat source, 15mm clearance is recommended. 					

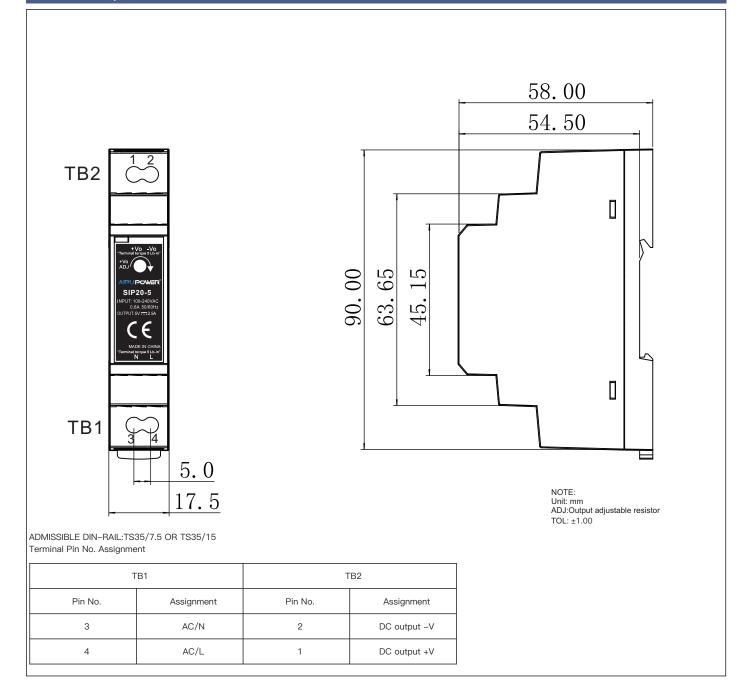
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Mechanical specification



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Input voltage(VAC)

Block diagram

-30 -10

25 30

Ambient temperature(°C)

0

50 60

40

70

