



CE EN 62368-1

Features:

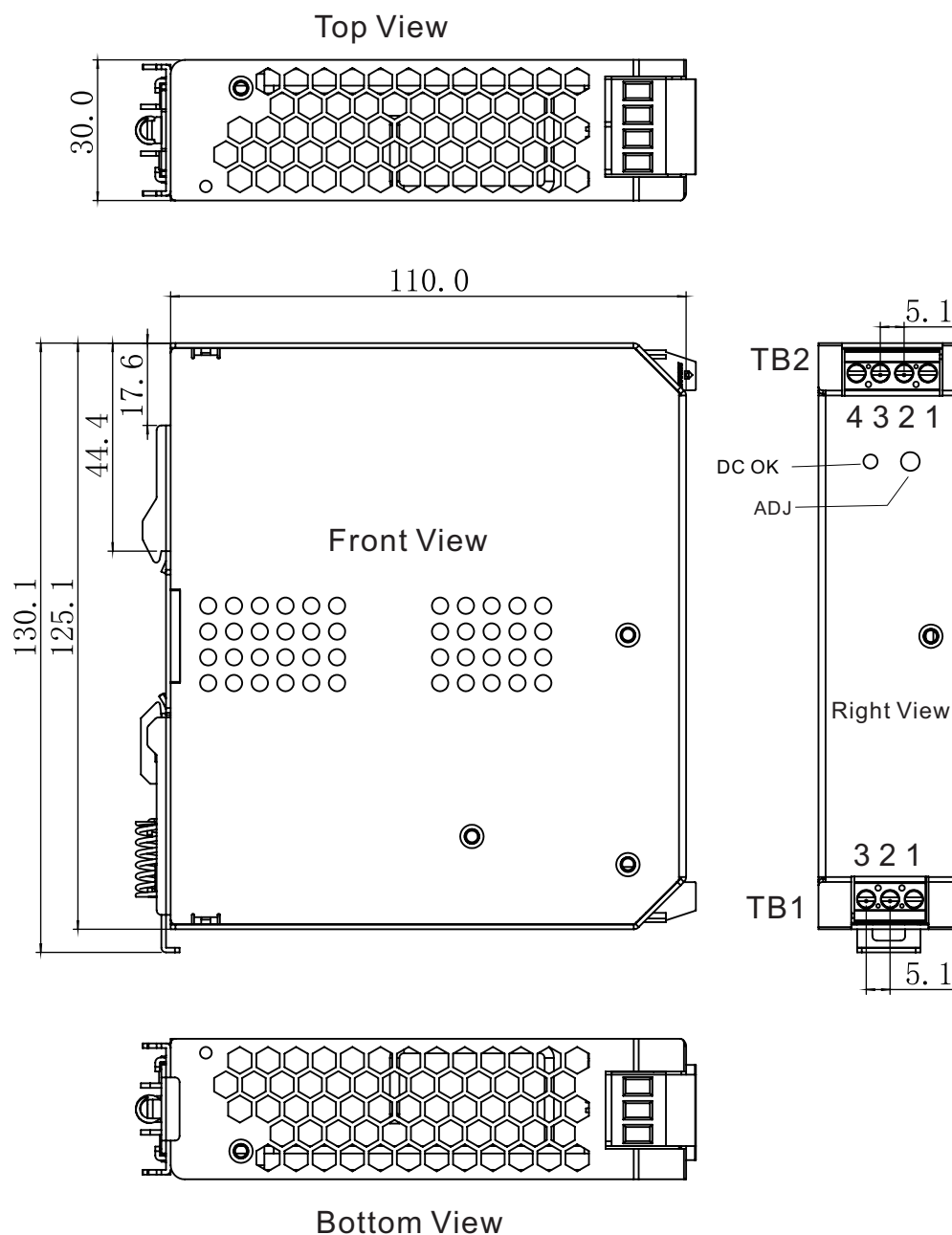
- Universal AC input 90~264VAC
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Can be installed on DIN rail TS-35/7.5 or 15
- The body width is only 30mm
- 100% full load burn-in test
- LED indicator for power on
- High reliability
- 3 years warranty
- Compliance to IEC/EN/UL 62368-1

Specification

MODEL		SIM100-12	SIM100-15	SIM100-24	SIM100-36	SIM100-48
INPUT	VOLTAGE RANGE	90~264VAC 127~370VDC(refer to 'static characteristic')				
	FREQUENCY RANGE	47~63Hz				
	EFFICIENCY(Typ.)	86%	86%	89%	90%	90%
	AC CURRENT(Typ.)	2A/115VAC 1.2A/230VAC				
	INRUSH CURRENT(Typ.)	23A/115VAC 45A/230VAC (cold start)				
	LEAKAGE CURRENT	<1mA/240VAC				
OUTPUT	DC VOLTAGE	12V	15V	24V	36V	48V
	RATED CURRENT	6.6A	6.6A	4.2A	2.8A	2.1A
	CURRENT RANGE	0~6.6A	0~6.6A	0~4.2A	0~2.8A	0~2.1A
	RATED POWER	79.2W	99W	100.8W	100.8W	100.8W
	RIPPLE&NOISE (max.)	100mVp-p	100mVp-p	120mVp-p	120mVp-p	150mVp-p
	VOLTAGE ADJ.RANGE	12~14V	15~17.5V	24~28V	36~42V	48~55V
	VOLTAGE TOLERANCE	±1%	±1.5%	±1%	±1%	±1%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1%	±1.5%	±1%	±1%	±1%
	SETUP, RISE TIME	500ms,50ms/230VAC 500ms,50ms/115VAC				
	HOLD UP TIME(Typ.)	30ms/230VAC 7ms/115VAC				
PROTECTION	OVER LOAD	105%~135% rated output power				
		Protection type:constant current limiting when output voltage>50%Vo, otherwise hiccup, recovers automatically after fault condition removed				
	OVER VOLTAGE	15~18V	19~23V	29~33V	43~47V	56~65V
		Protection type: Shunt down, recovers after repower on				
ENVIRONMENT	OVER TEMPERATURE	Protection type: Shunt down, recovers after repower on				
	WORKING TEMP.,HUMIDITY	-20~+70°C (Refer to "Derating curve") , 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, 2G 10min./1 cycle, each along X、Y、Z axes				

Safety and electromagnetic compatibility	Safety standards	Refer to UL62368-1,TUV EN62368-1,CCC GB4943.1		
	Withstand voltage and isolation resistance			
		O/P-FG: 0.5KVac; 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	----
	Electromagnetic compatibility immunity	BS EN/EN55035		
		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, 2KV/L/N-FG 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	≥450Khrs MIL-HDBK-217F(25℃)		
	DIMENSION	30*125.1*110mm(W*H*D)		
	PACKING	0.5Kg; 24pcs/ 13Kg/ 1.34CUFT		
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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. Tolerance: includes set up tolerance, line regulation and load regulation. 4. Line regulation is measured from low line to high line at rated load. 5. Load regulation is measured from 0% to 100% rated load 6. 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. 7. The ambient temperature derating of 5℃/1000m is needed for operating altitude great than 2000m(6500ft). 8. 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 unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. 9. 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.			

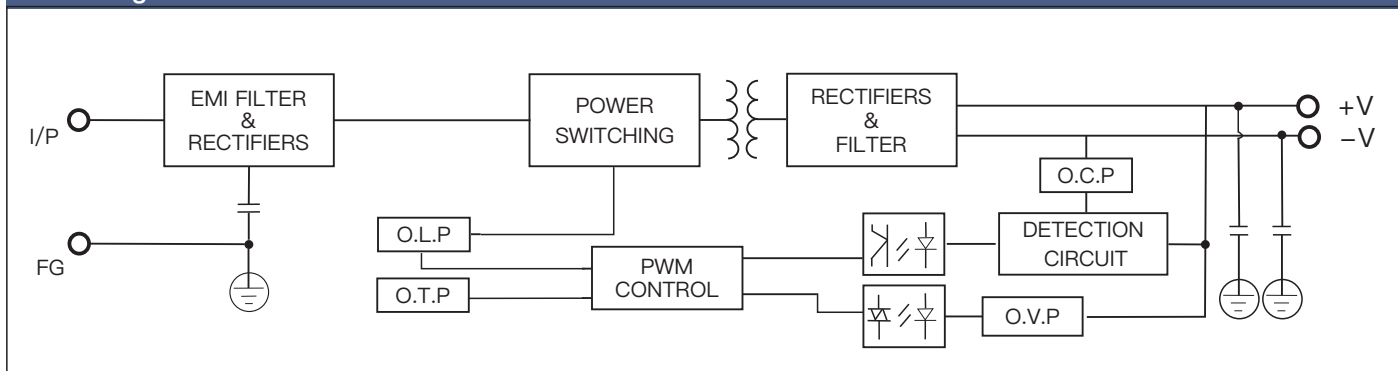
Mechanical specification



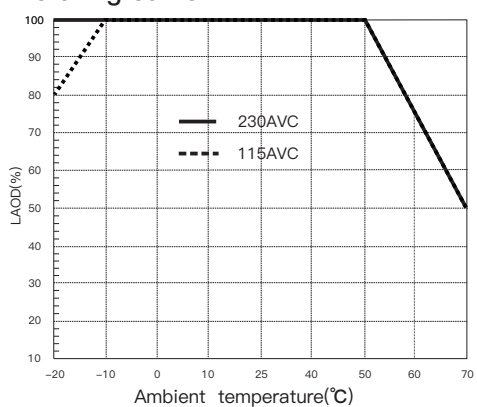
ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15
Terminal Pin No. Assignment

TB1		TB2	
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	1,2	DC output -V
2	AC/N	3,4	DC output +V
3	FG		

Block diagram



Derating curve



Static characteristics

