



## Features:

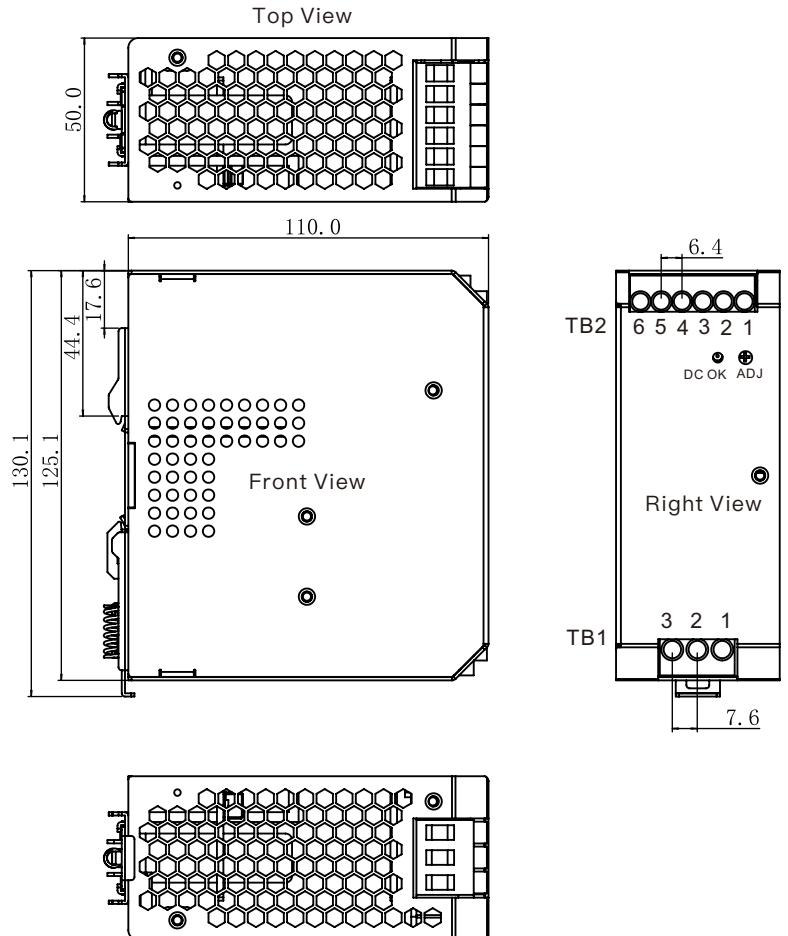
- Universal AC input 90~264VAC
- Built in active PFC function
- Protections: Short circuit / Overload / Over voltage Over temperature
- Can be installed on DIN rail TS-35/7.5 or 15
- The body width is 50mm
- 100% full load burn-in test
- LED indicator for power on
- DC OK relay contact(Options)
- Redundancy function(SIML480R)
- High efficiency/high reliability
- 3 years warranty
- Compliance to IEC/EN/UL 62368-1

## Specification

MODEL		SIML480-12	SIML480-24	SIML480-48
INPUT	VOLTAGE RANGE	90~264VAC (Refer to "Static characteristics")	127~370VDC(Options)	
	FREQUENCY RANGE	47~63Hz		
	Power factor(Typ.)	PF>0.98/115VAC	PF>0.96/230VAC Full-load	
	EFFICIENCY(Typ.)	93.5%	94.5%	95%
	AC CURRENT(Typ.)	5A/115VAC	3.2A/230VAC	
	INRUSH CURRENT(Typ.)	20A/115VAC	45A/230VAC (cold start)	
	LEAKAGE CURRENT	<2mA/240VAC		
OUTPUT	DC VOLTAGE	12V	24V	48V
	RATED CURRENT	27A	20A	10A
	CURRENT RANGE	0~27A	0~20A	0~10A
	RATED POWER	324W	480W	480W
	RISSLE&NOISE (max.)	150mVp-p	150mVp-p	200mVp-p
	VOLTAGE ADJ.RANGE	12~14V	24~28V	48~55V
	VOLTAGE TOLERANCE	±1%	±1%	±1%
	LINE REGULATION	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±2%	±1%	±1%
	SETUP, RISE TIME	1000ms,50ms/230VAC	1000ms,50ms/115VAC	
PROTECTION	OVER LOAD	125%~170% rated output power		
		Protection Mode: hiccup mode, recovers automatically after fault condition is removed		
	OVER VOLTAGE	15~18V	29~35V	56~65V
		Protection mode: Shut down, recovers after repower on		
	OVER TEMPERATURE	Protection mode: Shut down, recovers after temperature drop		
FUNCTION	DC OK SIGNAL(OPTIONS)	Contact specifications (max.):30VDC/1A Resistive load		
	REDUNDANCY(ADR-480R)	Protection for parallel redundancy use: In parallel redundancy applications, when one power supply experiences abnormal shutdown, the other power supply will automatically activate. This can prevent system crashes and increase system reliability.		
ENVIRONMENT	WORKING TEMP.,HUMIDITY	-30~+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	I/P-O/P: 3KVac; 100MΩ / 500Vdc / 25°C / 70%RH I/P-FG: 2KVac; 100MΩ / 500Vdc / 25°C / 70%RH O/P-FG: 0.5KVac; 100MΩ / 500Vdc / 25°C / 70%RH		
	Electromagnetic compatibility emission	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
OTHERS	MTBF	≥200Khrs MIL-HDBK-217F(25°C)		
	DIMENSION	50*125.1*110mm(W*H*D)		
	PACKING	0.97Kg; 12pcs/ 12.6Kg/ 0.63CUFT		
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. 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°C/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



NOTE:  
Unit: mm  
ADJ:Output adjustable resistor  
TOL:  $\pm 1.00$

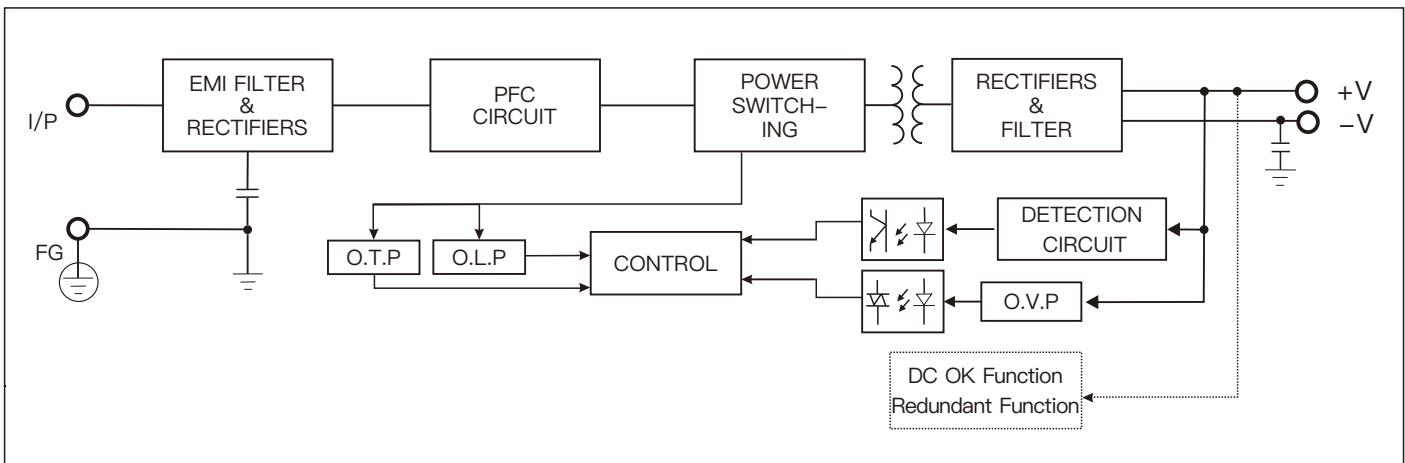
ADMISSIBLE DIN-RAIL:TS35/7.5 或 TS35/15

Bottom View

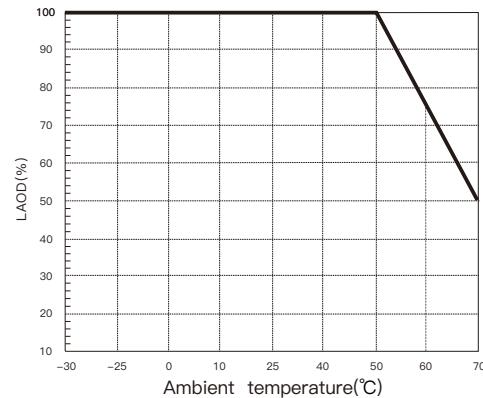
Terminal Pin No. Assignment

TB1		TB2	
Pin No.	Assignment	Pin No.	Assignment
1	AC/L		
2	AC/N	1,2,3	DC output -V
3	FG	4,5,6	DC output +V

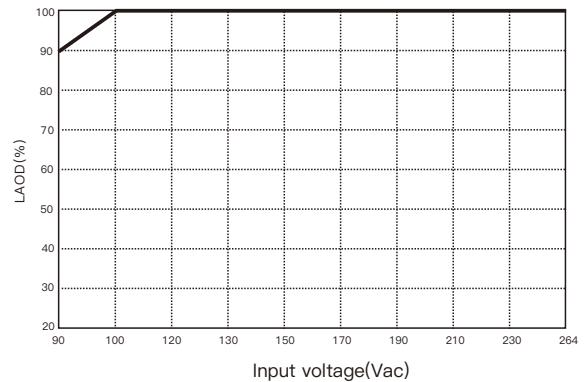
## Block diagram



## Derating curve



## Static characteristics



## DC OK Relay Contact(Options)

Contact closure	Power on/DC ok
Contact open	Power off/DC fail
Contact specifications (max.)	30V/1A Resistive load

## Redundancy function(SIML480R)

- 1, SIML480R Built in redundancy function, capable of parallel connection of 2 single machines
- 2, When running in parallel, the maximum load should not exceed the rated power of any one power source

