

## Features:

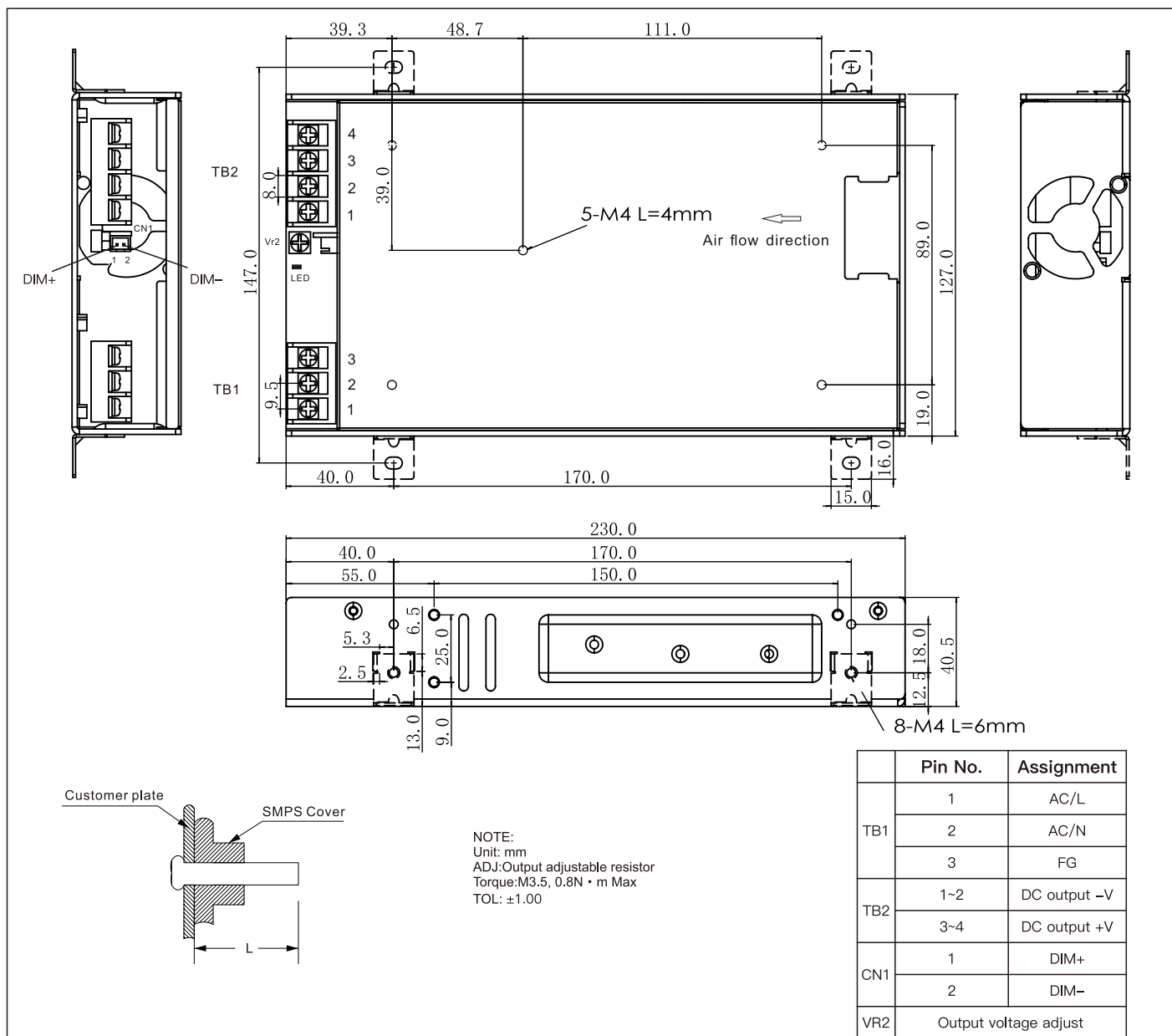
- AC input 180~264VAC
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in cooling Fan ON-OFF control
- 1U low profile 40.5mm
- Dimming function (0~10Vdc and resistance and 10V PWM)
- Forced air cooling by built-in DC fan
- 100% full load burn-in test
- LED indicator for power on
- High reliability
- 3 years warranty
- Comply with RoHS

## Specification

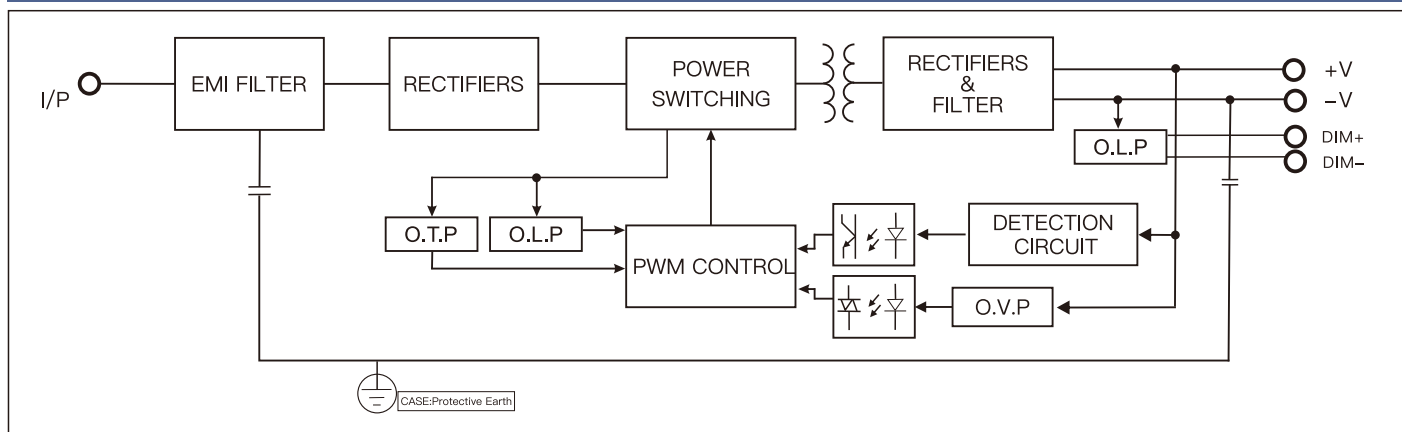
MODEL		LS-600C-24	LS-600C-36	LS-600C-48
INPUT	VOLTAGE RANGE	180~264Vac 240~370Vdc(refer to 'static characteristic')		
	FREQUENCY RANGE	47~63Hz		
	EFFICIENCY(Typ.)	88%	88%	89%
	AC CURRENT(Typ.)	6.5A/230Vac		
	INRUSH CURRENT(Typ.)	40A/230Vac (cold start)		
	LEAKAGE CURRENT	<2mA/240Vac		
OUTPUT	CONSTANT CURRENT REGION	18~24V	27~36V	36~48V
	RATED CURRENT	25A	16.6A	12.5A
	CURRENT ADJ.RANGE	0~25A	0~16.6A	0~12.5A
	RATED POWER	600W	597.6W	600W
	CURRENT RIPPLE	5.0%max.@rated current		
	OPEN CIRCUIT VOLTAGE max.	25.9~26.4V	39.1~39.6V	52.5~53V
	CURRENT TOLERANCE	±5%	±5%	±5%
	SETUP TIME	3000ms/230Vac		
PROTECTION	SHORT CIRCUIT	Protection type: constant current, recovers automatically after fault condition is removed		
	OVER VOLTAGE	30~35V	44~50V	55.2~64.8V
		Protection type: Hiccup mode, recovers automatically after fault condition is removed		
	OVER TEMPERATURE	Protection type: Shutdown, recovers automatically after temperature goes down		
FUNCTION	FAN ON/OFF CONTROL(Typ.)	RTH2≥50°C FAN ON, ≤40°C FAN OFF		
	DIMMING FUNCTION	Output constant current level can be adjusted by applying one of three methodologies between DIM+ and DIM-: 0~10VDC and resistance and 10V PWM Min. dimming level is about 5%		
ENVIRONMENT	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, 5G 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 A
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1	Class A
		Harmonic current	BS EN/EN61000-3-2,GB17625.1	Dos not meet
		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	≥200Khrs MIL-HDBK-217F(25°C)		
	DIMENSION	230*127*40.5mm(L*W*H)		
	PACKING	1.3Kg; 9pcs/ 12.7Kg/ 0.66CUFT		
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. Derating may be needed under low input voltage. Please check the derating curve and static characteristics for more details. 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000 m. 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 3mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives.			

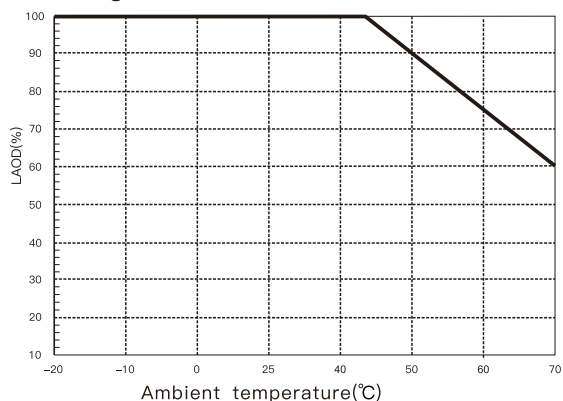
## Mechanical specification



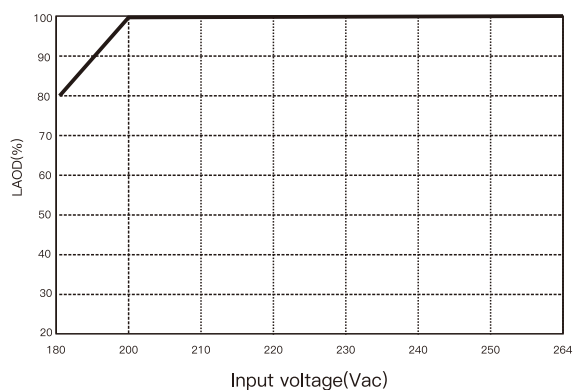
## Block diagram



Derating curve



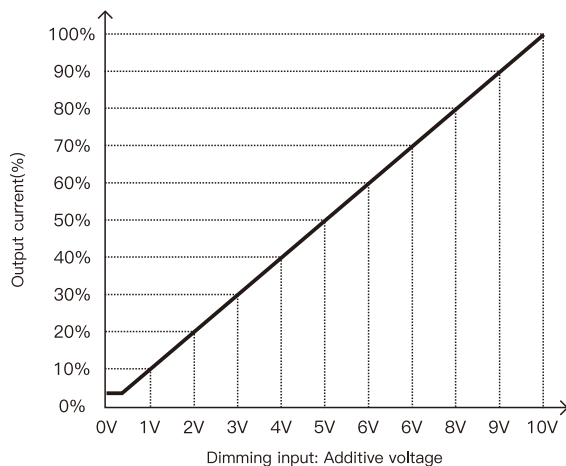
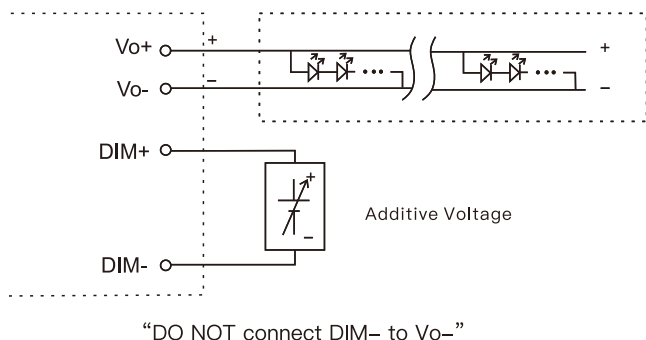
Static characteristics



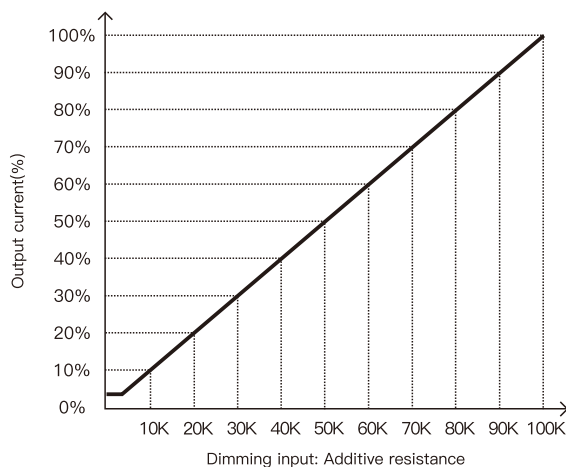
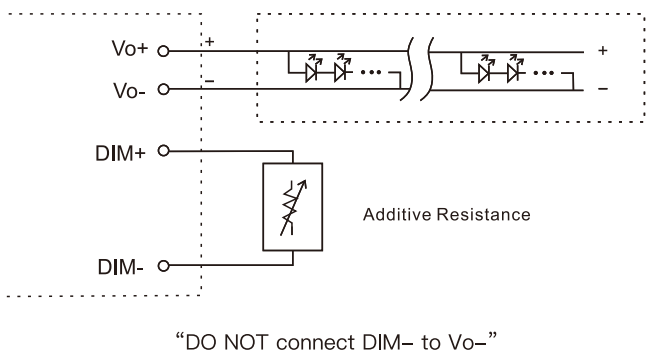
## Dimming function

Output constant current level can be adjusted by applying one of three methodologies between DIM+ and DIM-: 0~10VDC and resistance and 10V PWM

### 1, Applying additive 0~10VDC

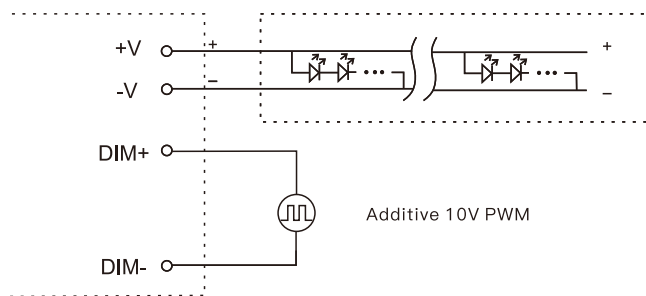


### 2, Applying additive resistance



Min. dimming level is about 5%

3, Applying additive 10V PWM signal (frequency rang 1KHz~5KHz)



“DO NOT connect DIM- to Vo-”

Min. dimming level is about 5%

