



● Features:

- . Standard slim case, 30mm height
- . Input Volt: 176~264VAC
- . Working temp: -40°C~ 70°C (refer to derating curve)
- . Fan-less, air-cooled
- . Protection: Short circuit/Overload
- . 100% aging test
- . High efficiency & reliability
- . 2 years warranty

● Function:

Converting 220 Volt voltage to 5 Volt,
powering for LED display, light etc

● Reference standard:

GB4943/EN60950/GB2324/EN55022/GB/T17626

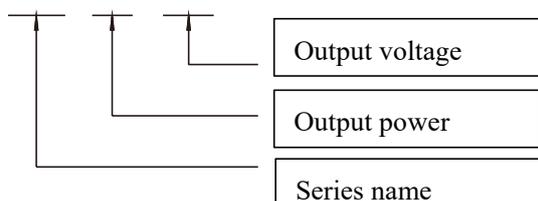
IEC61000-4,-6-1,-6-2,\GB17625.1-1998/GB/T 14714

● Description:

LPH300S5U8F is a 300W fan LED display power supply. The input voltage rang is 176~264VAC and output voltage is 5V. It can be applied to Led display, LED indicator light and other Led display fields. This product is ultra-thin design,with a height of only 30mm, and can adapt to a variety of box size requirements. Super high efficiency, compact shell design and good heat dissipation ensure the long-term stable work.

● Model Encoding:

LPH-300S -5U8F



● **Specification:**

	Model	LPH300S5U8F					
Input	Input voltage	176~264VAC					
	Input current	240VAC/4A					
	Efficiency	≥86.5%					
	Frequency range	47~63HZ					
	Leakage current	<1.5mA/230VAC					
	Inrush current	Cold start,50A/230VAC					
	PFC	-					
Output	DC voltage	5V					
	Rated current	60A					
	Rated power	300W					
	Voltage ADJ.range	--					
	Ripple & Noise	<200mVp-p					
	Setup,rise	2500ms, 50ms/230VAC at full load					
	hold up time	5ms/230VAC at full load					
	Line regulation	±0.5%					
	Load regulation	±2.0%					
	Voltage tolerance	±3.0%					
EMC	Interrupt,fall	Compliance to:EN6100-4-11/C					
	Vibration	10~500Hz, 2G 10min./1 cycle, 6 cycle each X,Y,Z axes					
	Shock	20G/11mS pulse, 3 times at each X,Y,Z axes					
Safety	Safety standard	Compliance to:GB4943/UL60950					
	Withstand voltage	I/P-O/P:3.0KVac/10mA; I/P-CASE:1.5KVac/10mA; O/P-CASE:0.5KVAC/10mA 1min for					
	Isolation resistance	I/P-O/P:100M ohms; I/P-Case:100M ohms; O/P-Case:100M ohms					
Protection	Over voltage	/					
	Over load	110~150% rated Hiccup mode,auto-recovery					
	Over current	72-92A error eliminated, auto-recovery					
	Short circuit	Hiccup mode,auto-recovery					
Environment	Working Temp&humidity	-40~70°C 20%~95%RH non-condensing (Refer to Derating Curve)					
	Storage Temp&humidity	-40°C~85°C; 10%~95%RH non-condensing					
	Vibration	10~500Hz,2G, 10min/1 cycle,60min.each along X,Y, Z axes					
	Impact	20G, last 11mS, 3 impacts along X, y and Z axes					
	Altitude	the ambient temperature derating of 0.6 °C/100m for operating altitude higher					
Reliability	MTBF	Under 25°C:100000Hrs, MIL-217 Method 2					
Others	Size	192*82*30 mm (L*W*H)					
	Packing	0.42Kg/pc, 30pcs/ctn, 13.6KG/ctn					
	Cold mode	<input type="checkbox"/> free air convection <input checked="" type="checkbox"/> with fan					
	More options	<input type="checkbox"/> PCB double side conformal coating <input type="checkbox"/> Terminal with cover <input type="checkbox"/> low temp start					

*In order to extend the service life, it is recommended to leave 30% more allowance when loading. For example, if the equipment needs 100W power, please choose the power supply over 130W.

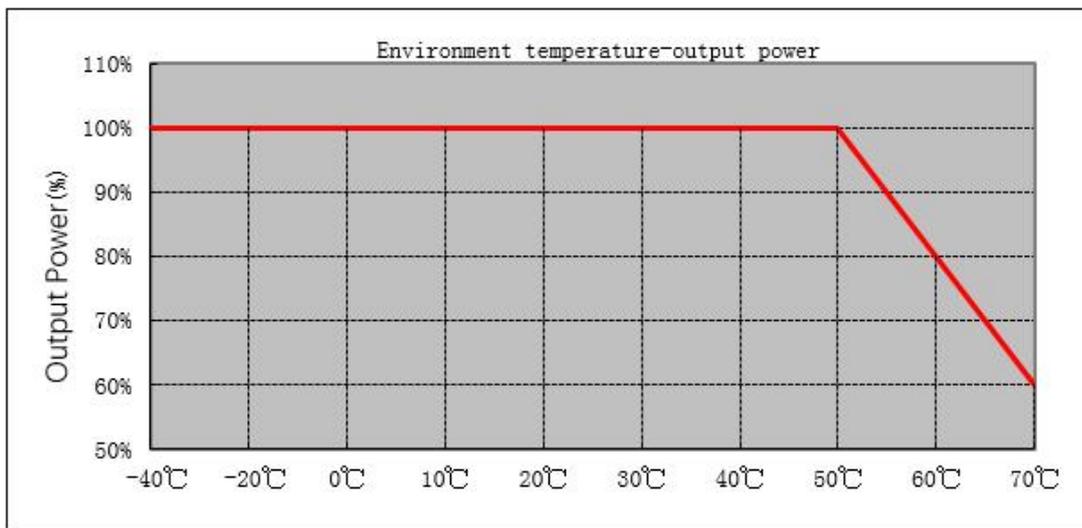
*Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

*All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

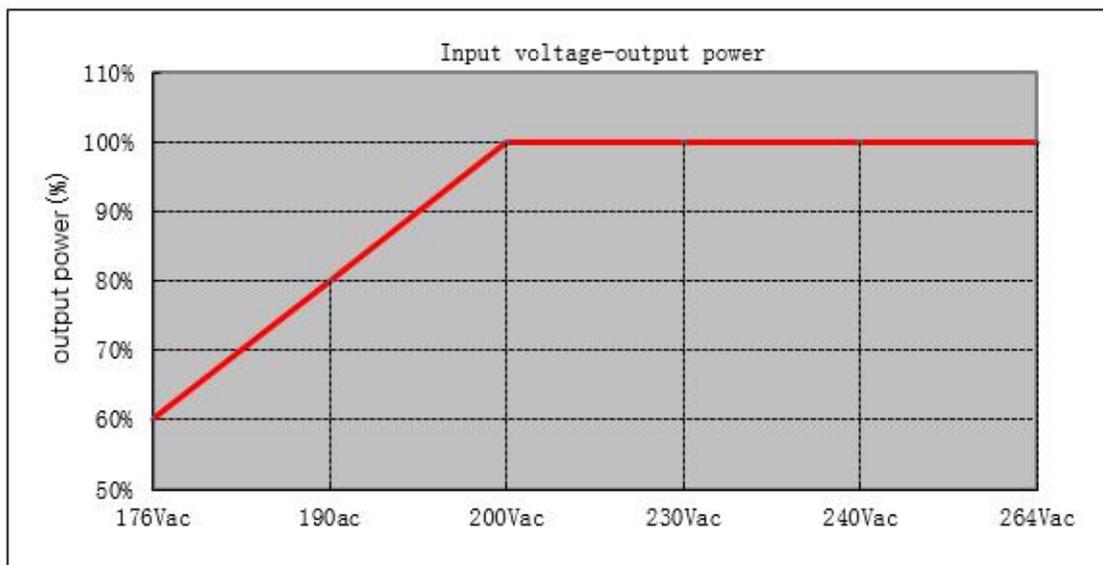
*the auxiliary heat dissipation of aluminum plate with an area of 300 * 300 * 5mm must be used when full load working.

*The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. All our EMC tests are carried out by mounting samples on metal plates.

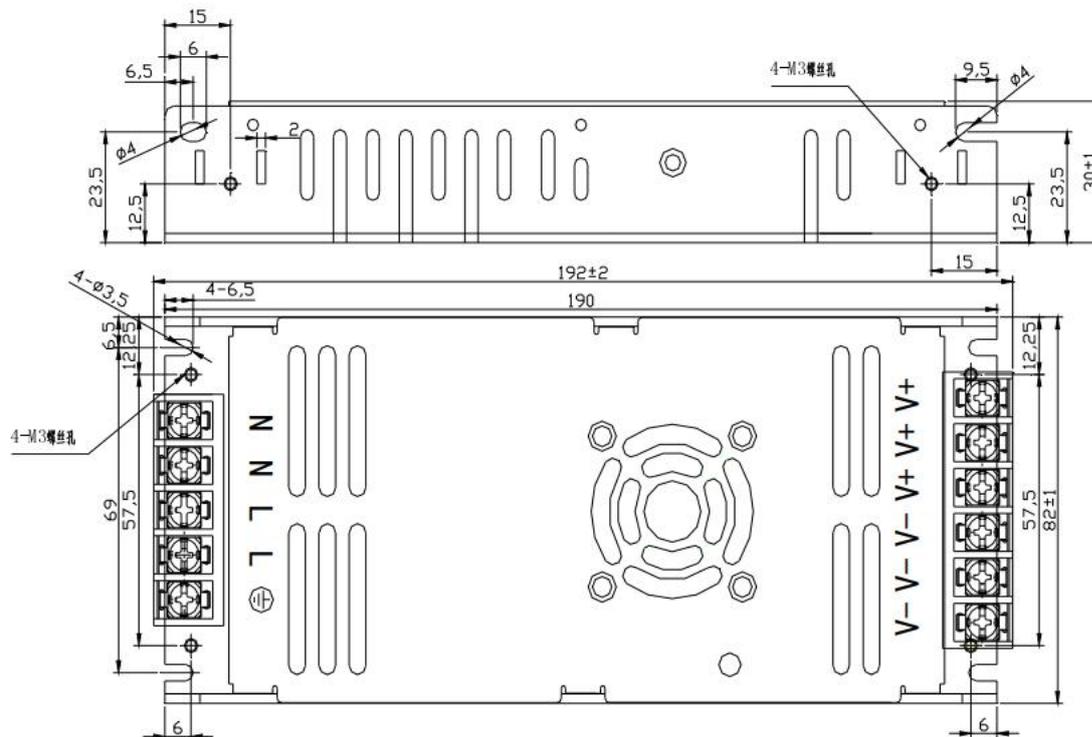
● Derating curve :



● Static characteristic curve :



● **Mechanical drawing :**



● **Installation:**

- 1、 Use mounting screws by M3*6mm
- 2、 Max depth of screws into housing is 4mm

● **Use instructions:**

- 1、 please follow the installation instructions when use the power supply.
- 2、 Before power on test run after installation, please check and proofread the wiring on each terminal, make sure that the input and output, AC and DC, positive and negative, voltage and current values are correct, prevent the occurrence of wrong connection, and avoid damaging the power supply and user equipment.
- 3、 Before power on, please use a multi meter to measure whether the live wire, zero wire and ground wire are short circuited, and whether the output terminal is short circuited; it is better to start without load when power on.
- 4、 Do not exceed the nominal value of the power supply when using, so as not to affect the reliability of the product. If you need to change the output parameters of the power supply, please consult our technical department before using.

5、 In order to ensure the safety of use and reduce interference, please ensure that the grounding terminal is reliably grounded (ground wire please thicker than AWG18#) .

6、 If the power supply fails, please do not repair it without permission. Please contact our customer service department as soon as possible, customer service line:

● **Transportation & Storage instructions**

1、 Transport:

The package is suitable for shipping by automobiles, ships, air, trains, etc. During transportation, it shall be rain proof, loaded and unloaded gently.

2、 Storage:

When the product is not in use, it shall be placed in the packing box. The storage environment temperature and relative humidity shall meet the requirements of the product. No corrosive gas or product in the warehouse, and no strong mechanical vibration, impact and strong magnetic field. The packing box shall be padded at least 20cm above the ground, and not be soaked. If the storage time is too long (more than 1 year), it shall be rechecked by professionals before use.