





■ Features

- · Universal AC input / Full range
- · Built-in current sharing function
- · With power good signal output
- · Built-in active PFC function
- · Low leakage current<1.0mA
- Fanless design, Cooling by free air convection
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · 3 years warranty

■ Applications

- · LED electronic signage
- · LED display application
- LED luminous characters
- LED TV wall
- · LED channel letter

■ Description

LHP-200 series is a 200W LED display power solution. The ultra low profile design that allows the height and weight of the sign module to be slim. It greatly simplifies the delivery and installation process. Accounting for high efficiency and energy saving, the series effectively achieves electricity reduction. It is suitable for LED signage display, moving sign, LED channel letter and LED TV wall etc.

■ Model Encoding





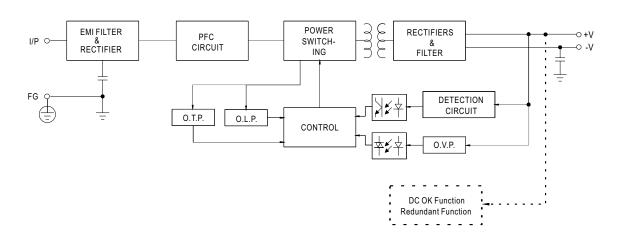
200W Single Output with PFC Function

SPECIFICATION

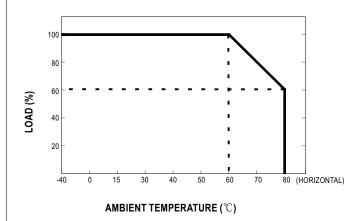
MODEL		LHP-200-4.2	LHP-200-4.6	LHP-200-5	
	DC VOLTAGE	4.2V	4.6V	5V	
	RATED CURRENT	40A	40A	40A	
	RATED POWER(convection)	168W	184W	200W	
	RIPPLE & NOISE (max.) Note.2	200mVp-p	200mVp-p	200mVp-p	
	VOLTAGE RANGE	3.8~4.2V	4.2~4.6V	4.5~5V	
OUTPUT	VOLTAGE TOLERANCE Note.3				
	LINE REGULATION	±1.0%			
	LOAD REGULATION	±1.0%			
	SETUP, RISE TIME	2000ms, 100ms / 230VAC at full load			
	HOLD UP TIME (Typ.)	10ms/230VAC 10ms/115VAC			
	VOLTAGE RANGE Note.4	90 ~ 264VAC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR (Typ.)	PF≥0.95 / 230VAC at full load			
INPUT	EFFICIENCY (Typ.)	90%	91%	91%	
	AC CURRENT (Typ.)	2.2A/115VAC 1.1A/230VAC			
	INRUSH CURRENT (Typ.)	Cold start 40A/115VAC 80A/230VAC			
	LEAKAGE CURRENT	<1.0mA / 240VAC			
	SHORT CIRCUIT	Protection type: recovers automatically after fault condition is removed			
	OVER CURRENT	VER CURRENT 125 ~ 175% rated output power Protection type: Hiccup mode, recovers automatically after fault condition is removed			
PROTECTION	OVER OURRENT				
	OVER VOLTAGE	5.5~ 6V			
		Protection type :Shut down O/P voltage, with auto-recovery			
	OVER TEMPERATURE	Protection type :Shut down O/P voltage, reco	own		
FUNCTION	POWER GOOD	2.3~3.3V			
	WORKING TEMP.	-40 ~ +80°C (Refer to "Derating Curve")			
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +90°C, 5~ 95% RH non-condensing			
LIVINORIILLIVI	TEMP. COEFFICIENT	±0.02%/°C (0 ~ 50°C)			
	VIBRATION	1 ~ 200Hz, 2G 10min./1cycle, period for 30min. each along X, Y, Z axes			
	SAFETY STANDARDS	UL60950-1,EN60950-1,CCC GB4943.1 approved			
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.0KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC			
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG,O/P-FG:≥10M Ohms/500VDC/25°C / 70%RH			
(Note.6)	EMC EMISSION	Compliance to EN55032,GB/T9254 Class B,EN61000-3-2,EN61000-3-3,GB17625.1			
	EMC IMMUNITY	Compliance to EN55024,EN61000-4-2,3,4,5,6,8,11;			
OTUEDO	MTBF	100K hrs min. MIL-HDBK-217F (25°C)			
OTHERS	DIMENSION	220*50*26mm (L*W*H)			
	PACKING	0.39kg;30pcs/13.82kg/0.69CUFT			
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. Derating may be needed under low input voltages. Please check the derating curve for more details. The ambient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m(6500ft) 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 				



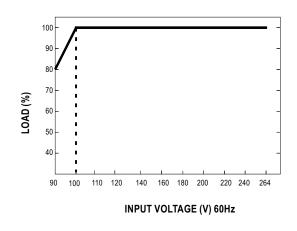
■ Block Diagram



■ OUTPUT LOAD vs TEMPERATURE



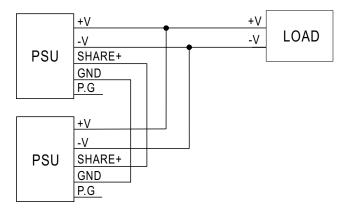
■ STATIC CHARACTERISTIC





■ Function Manual

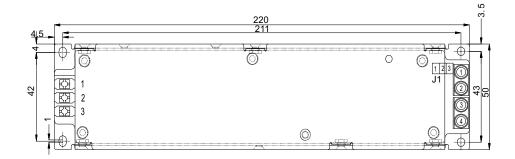
1.Redundant function

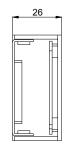




■ Mechanical Specification

Unit:mm







AC Input Terminal pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1	±	(Elinker)	
2	AC/N	LW1C-8.25-3P-130-04A	5Kgf-cm
3	AC/L		

DC Output Terminal pin NO. Assignment

Pin No.	Assignment	Terminal	Max mounting torque
1,2	+V	(Elinker)	5Kgf-cm
3,4	GND	LW1B-8.25-6P-130-05A	ortgi om

Function Connector(J1)

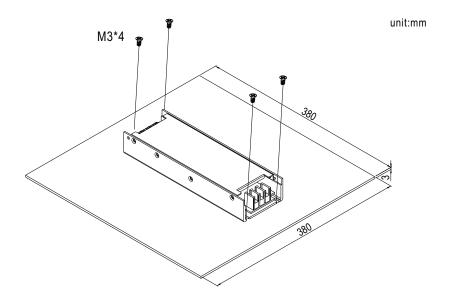
Pin No.	Assignment	Terminal
1	SHARE	JIESHITAI
2	GND	A2001A-03-A1MA-P-D
3	PG(Power Good)	7.200171 00 71111171 2



■ Installation

1. Operate with additional aluminum plate

In order to meet the "Derating Curve" and the "Static Characteristics", LHP-200 series must be installed onto an aluminum plate (or the cabinet of the same size) on the bottom. The size of the suggested aluminum plate is shown as below. And for optimizing thermal performance, the aluminum plate must have an even and smooth surface (or coated with thermal grease), and LHP-200 series must be firmly mounted at the center of the aluminum plate.



2.For heat dissipation, at least 5cm installation distance around the PSU should be kept, shown as below:

